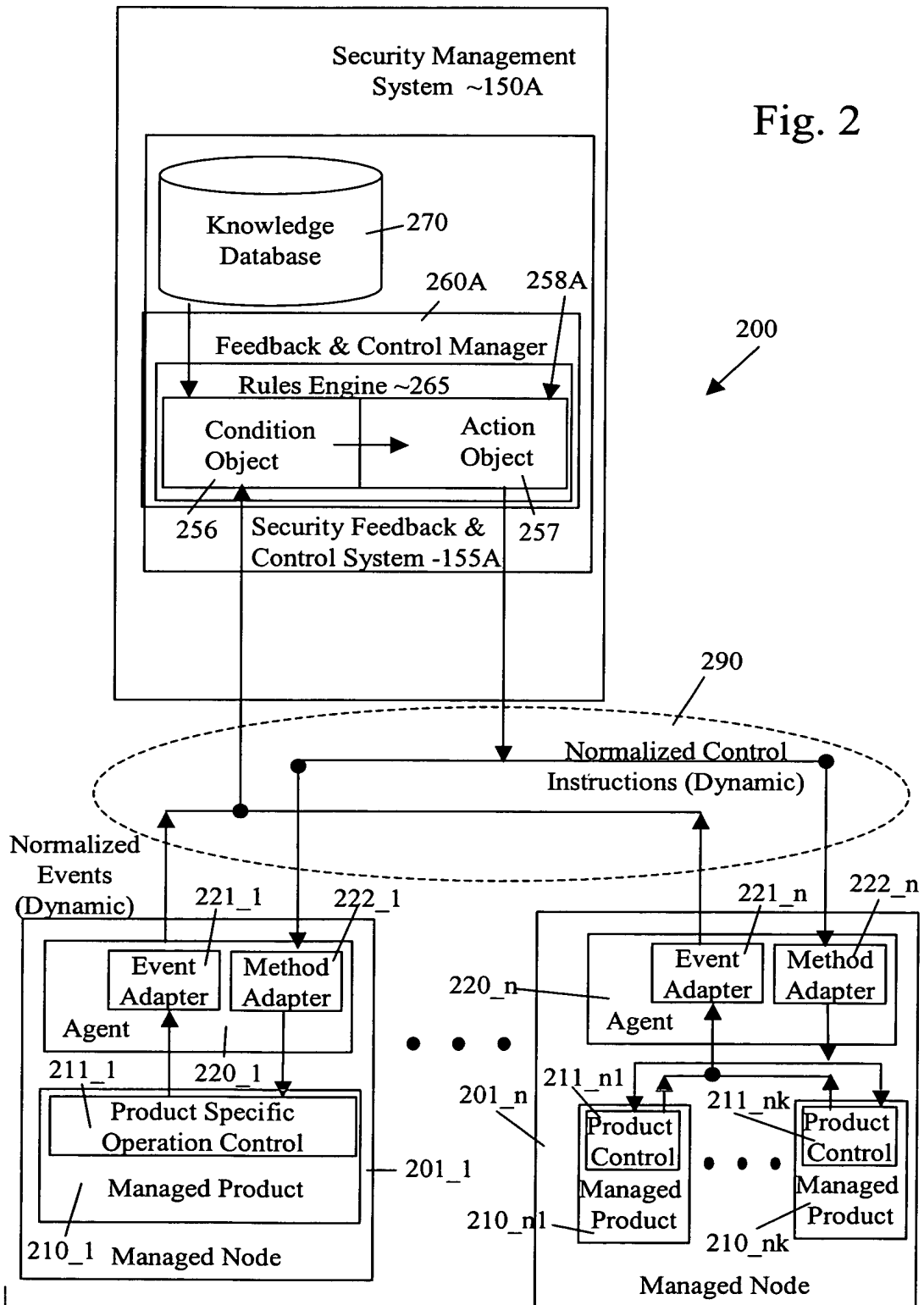


FIG. 1

Fig. 2



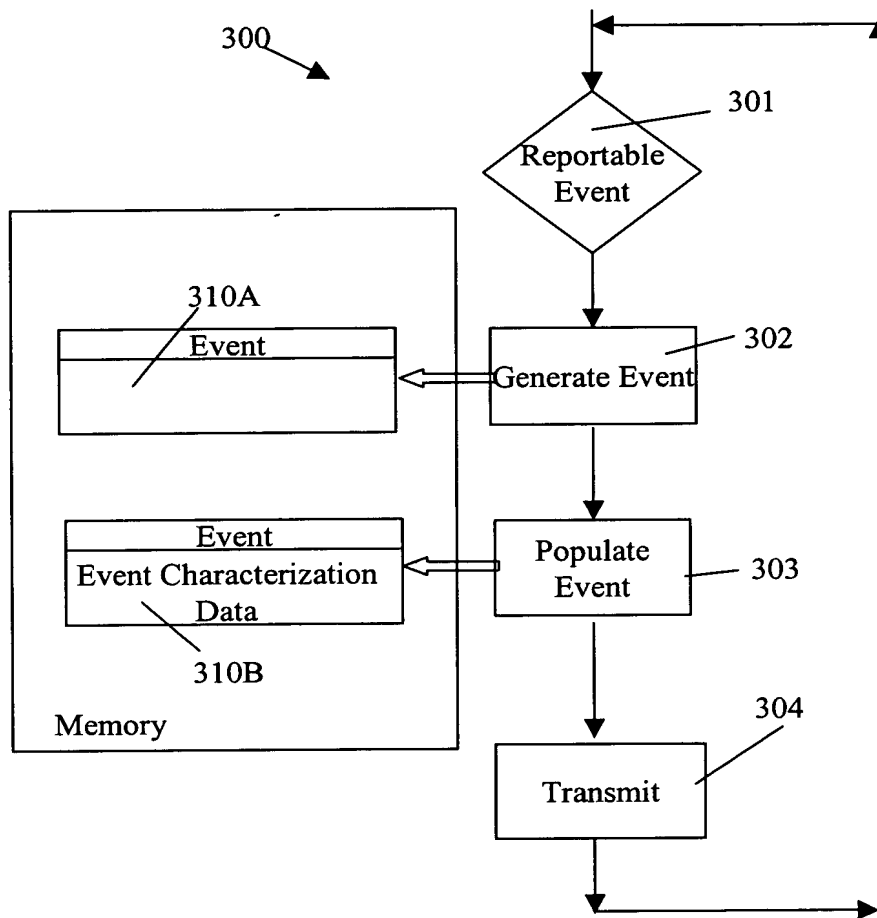


Fig. 3

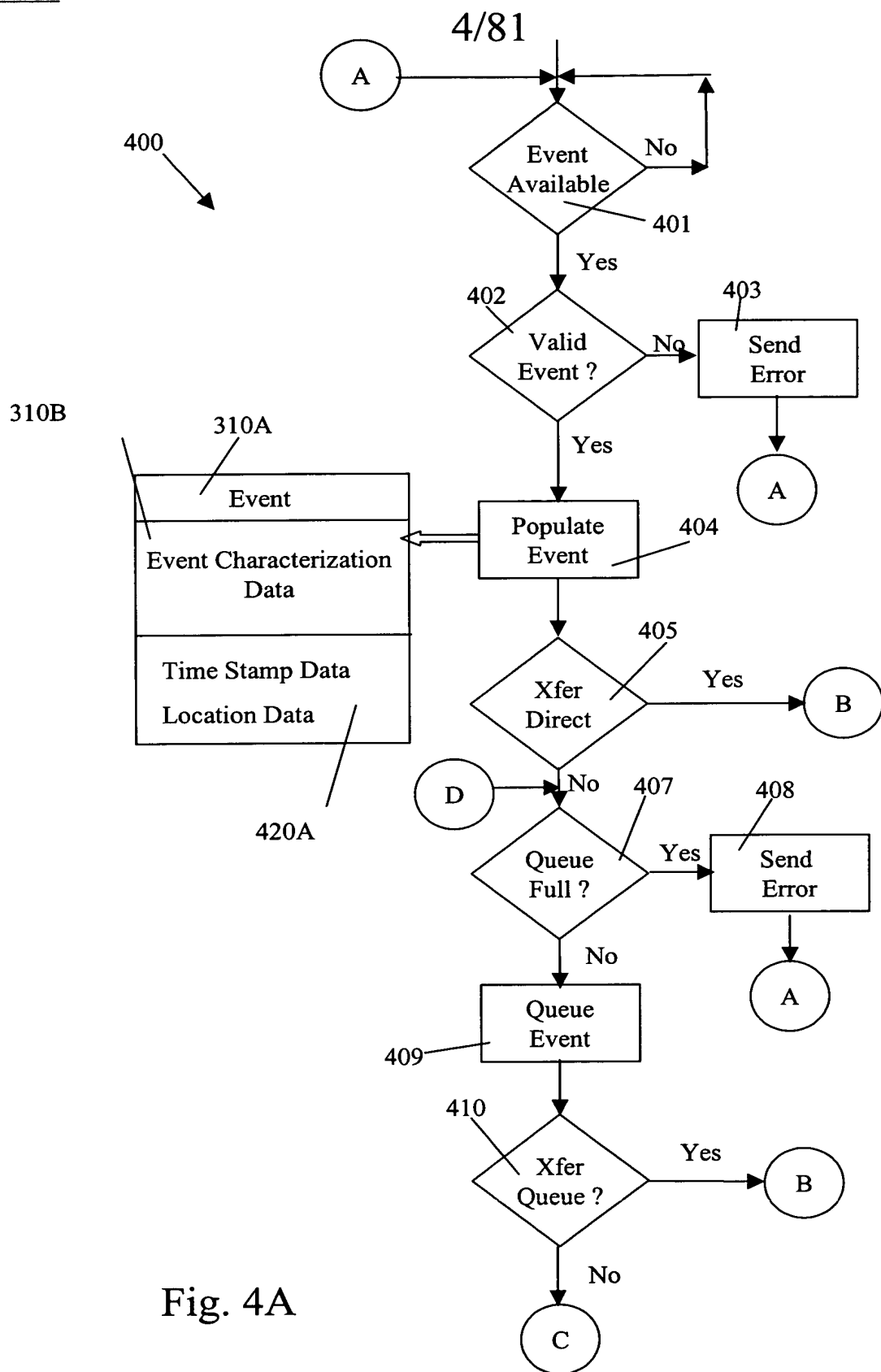


Fig. 4A

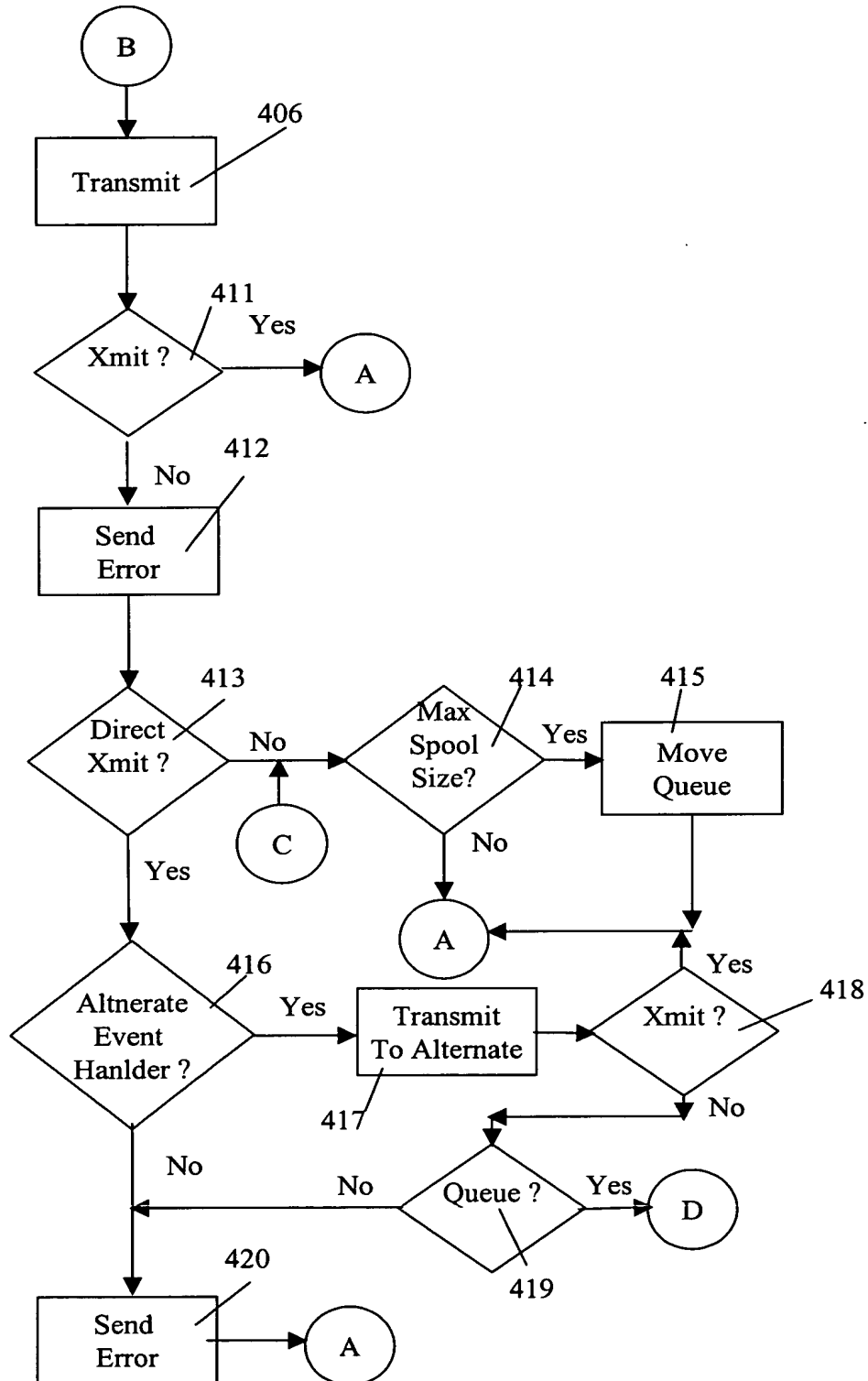


Fig. 4B

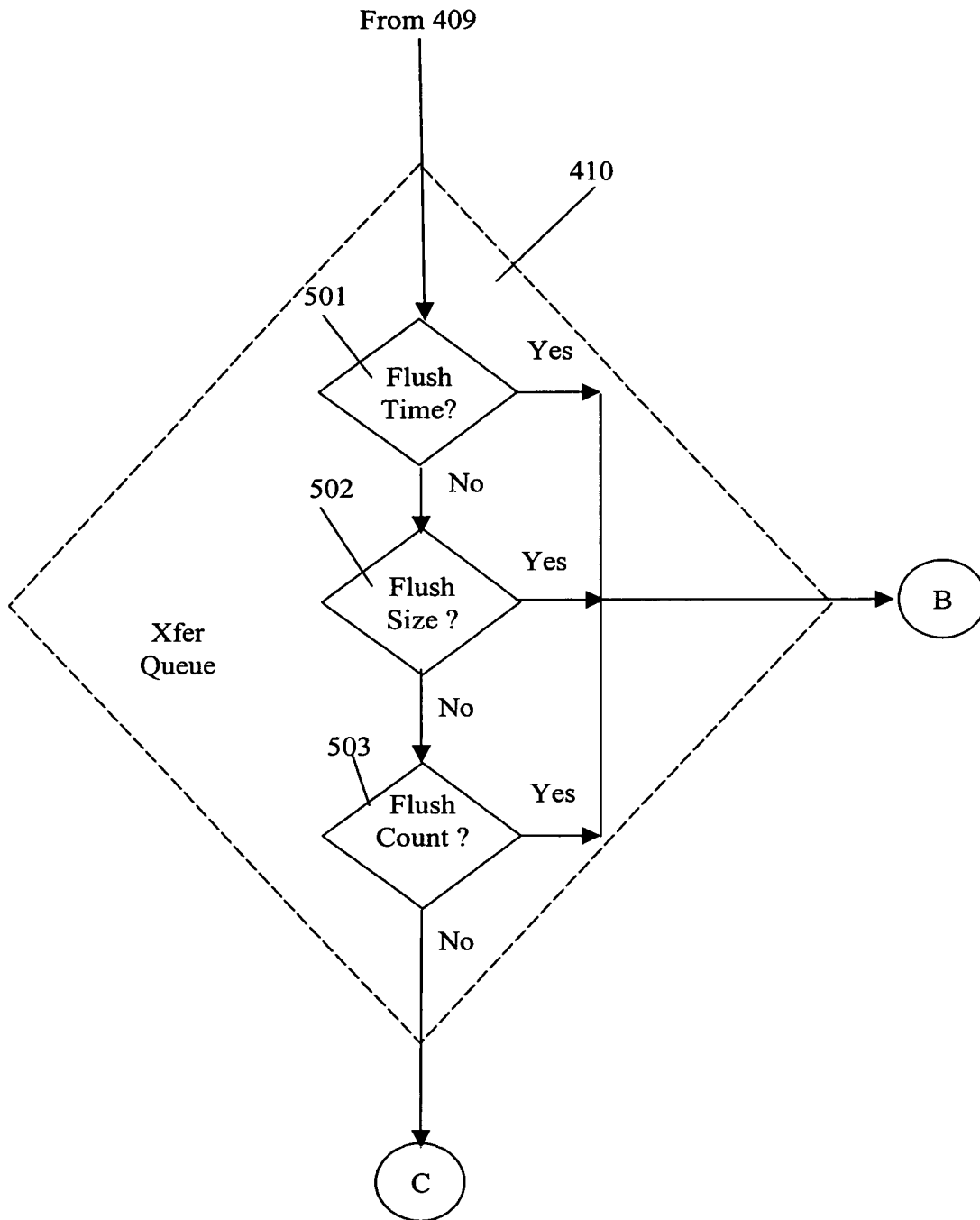


Fig. 5A

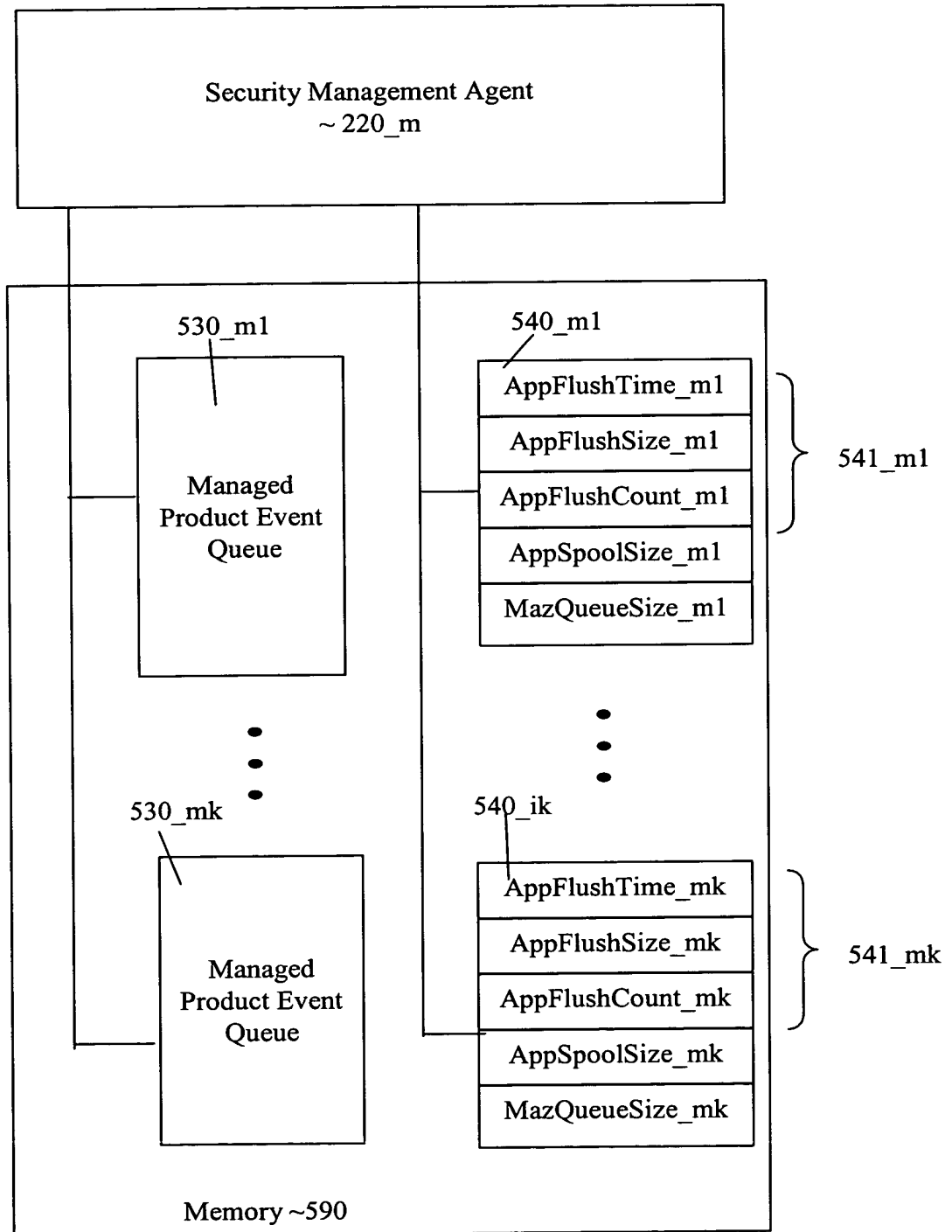


Fig. 5B

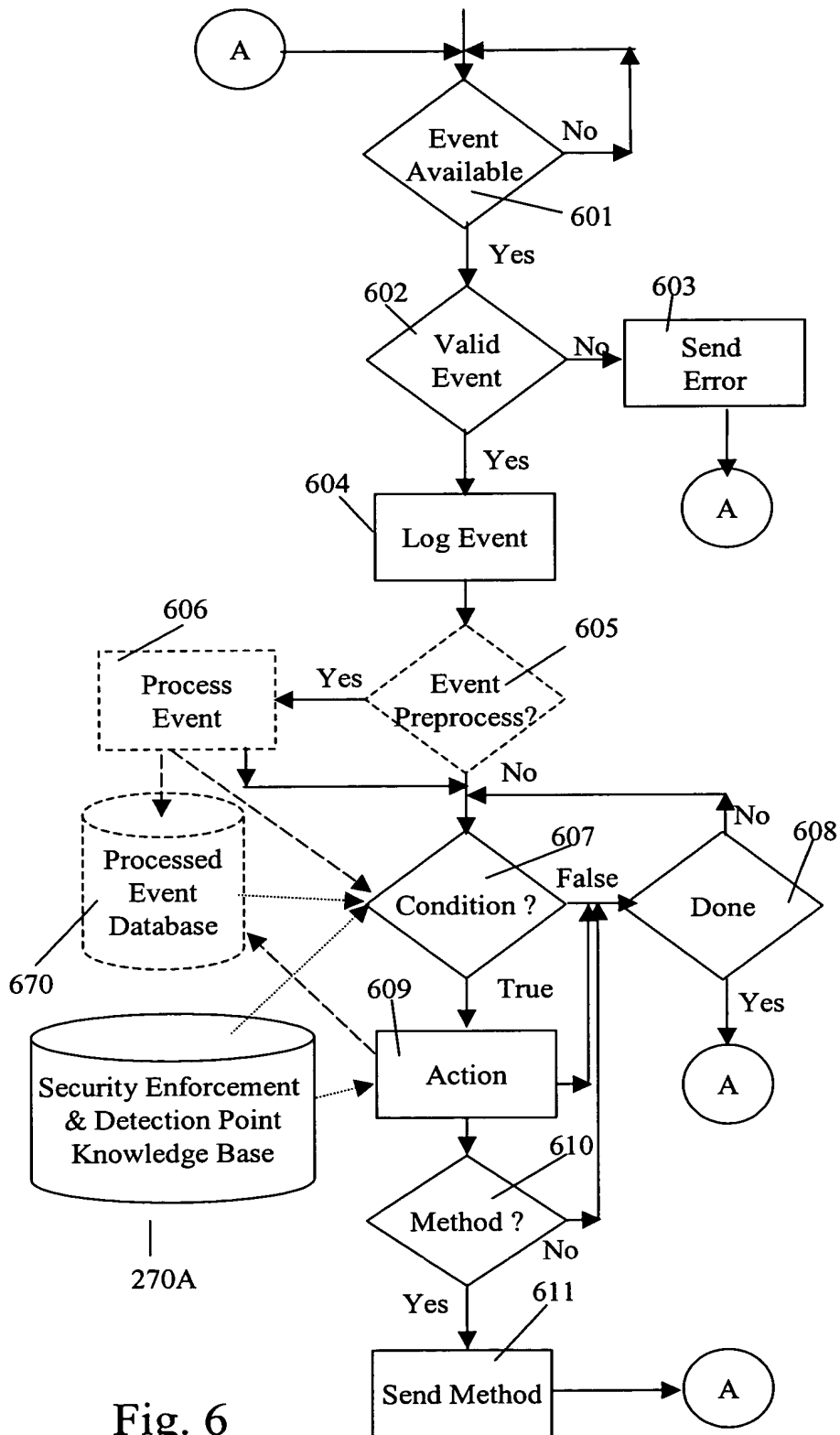


Fig. 6

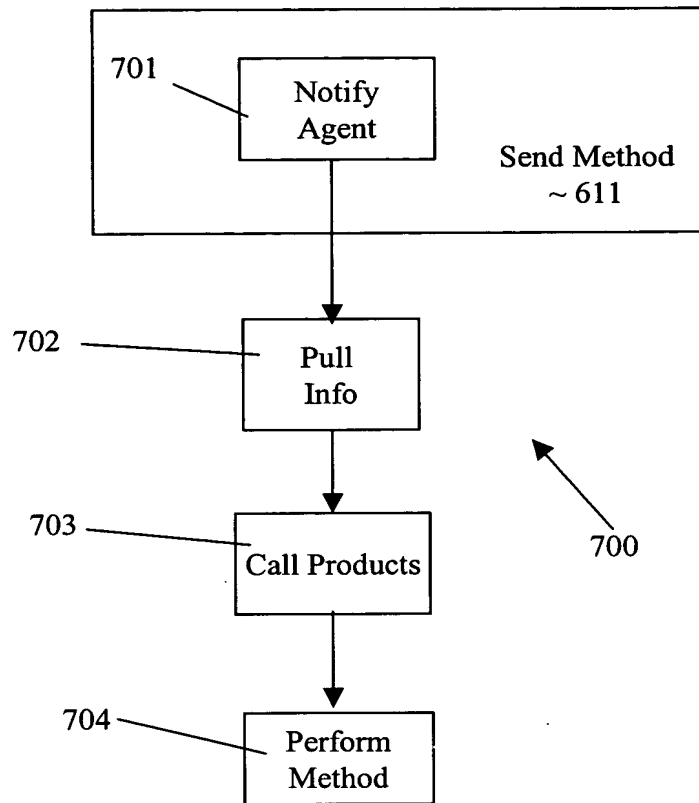


Fig. 7

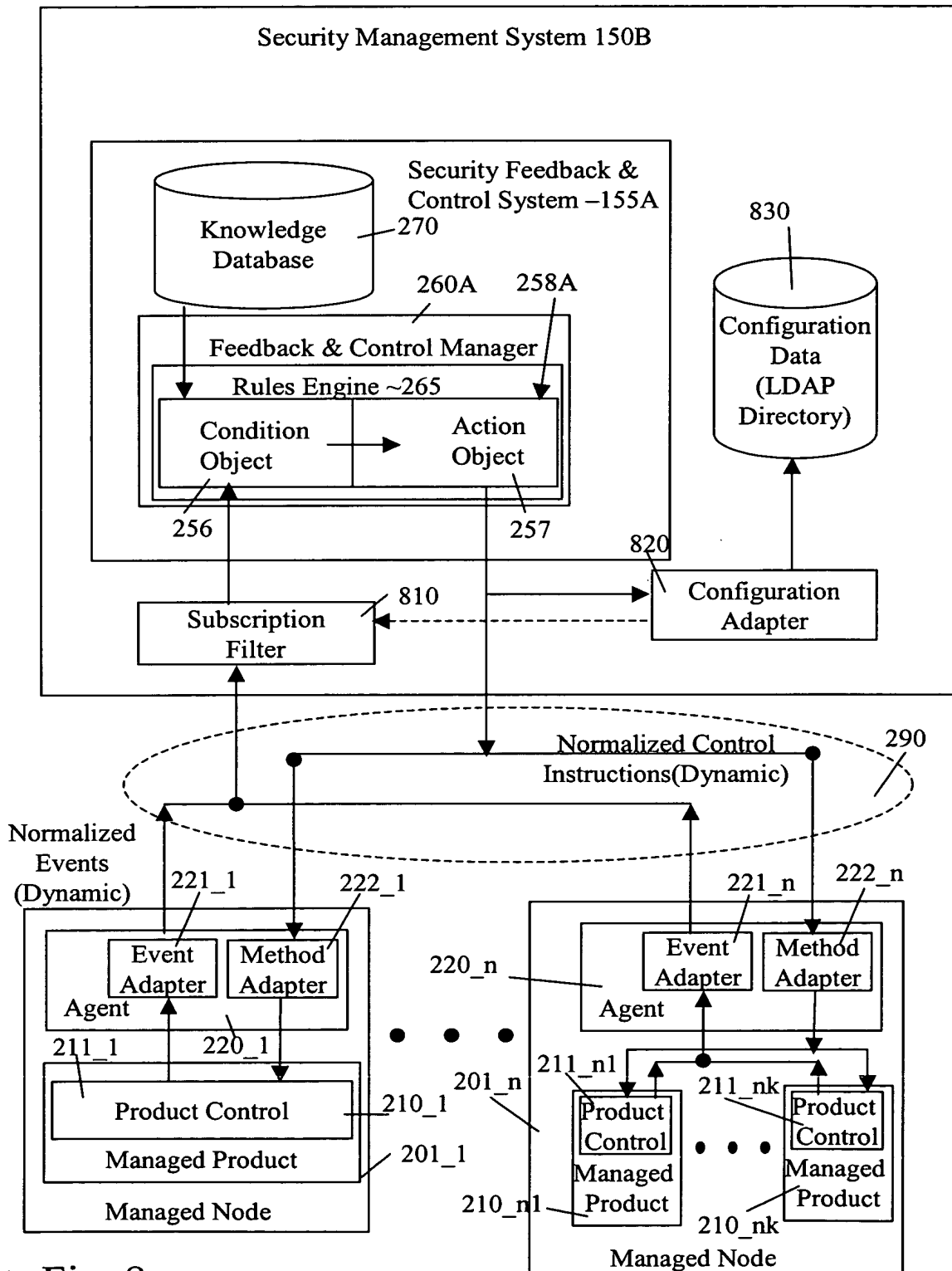


Fig. 8

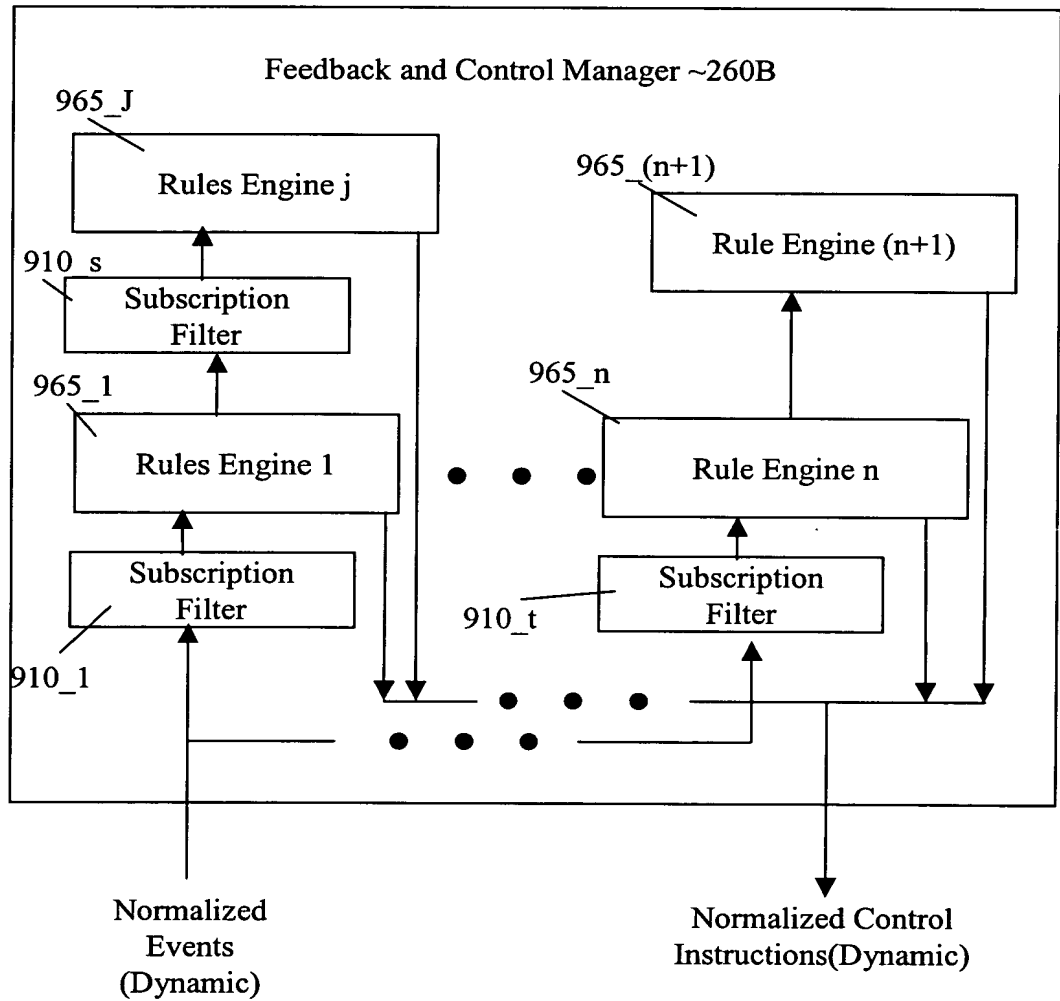


Fig. 9

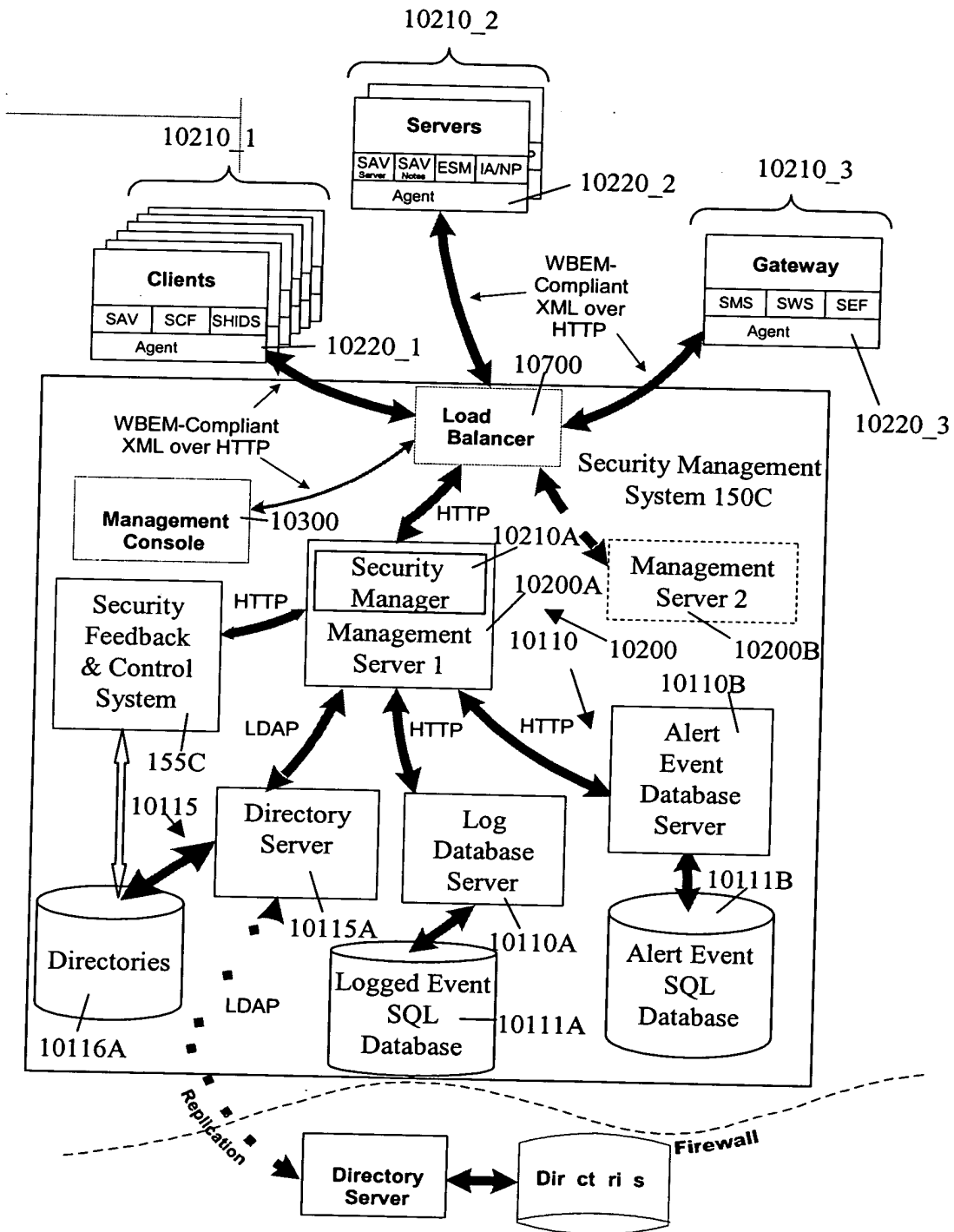


Fig. 10

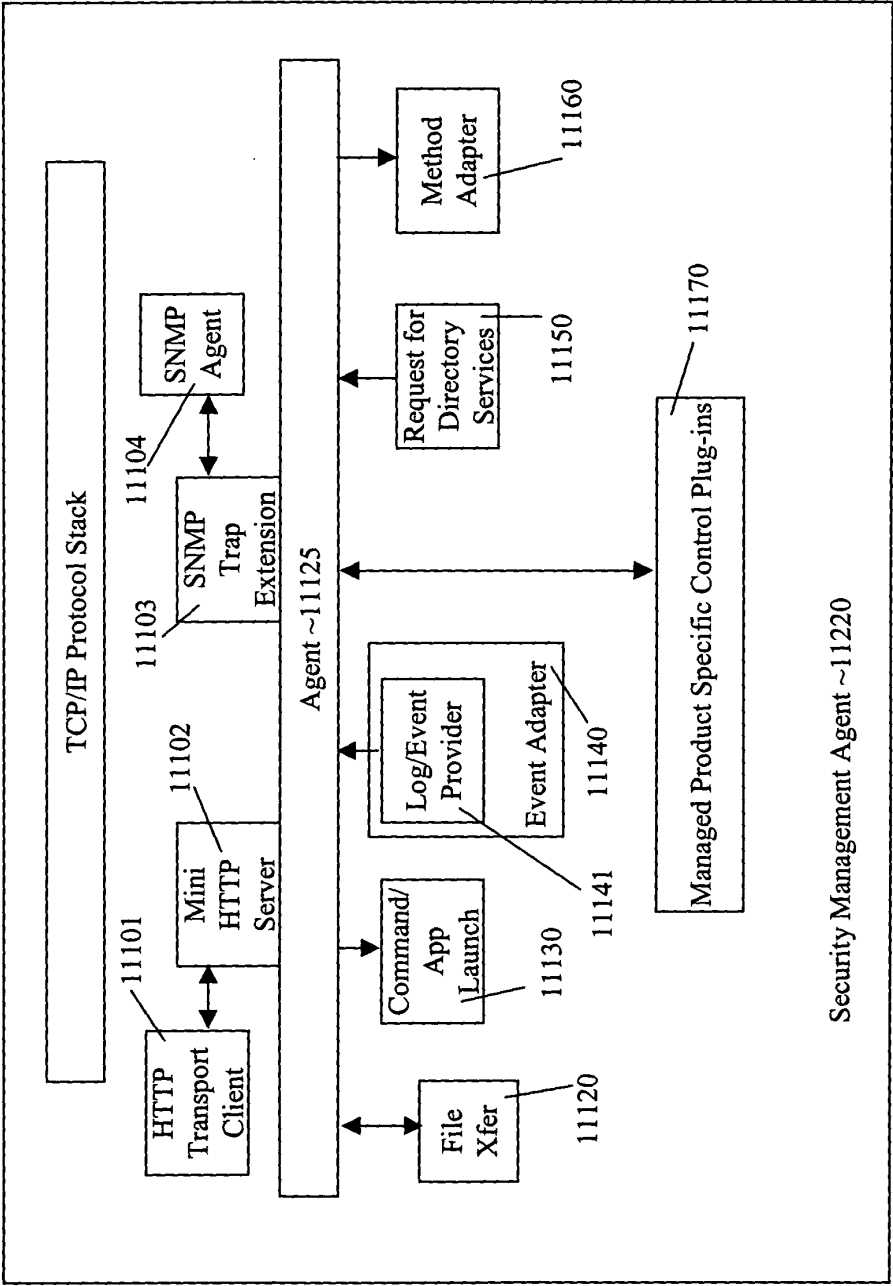


FIG. 11

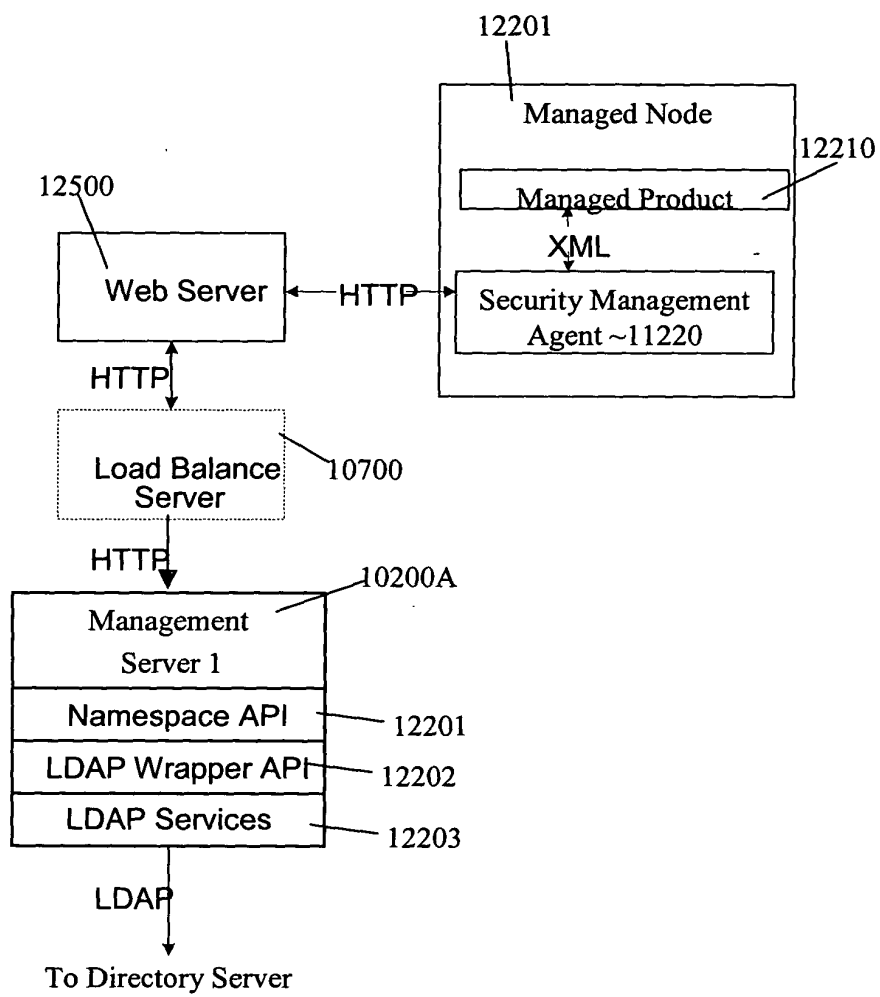


Fig. 12A

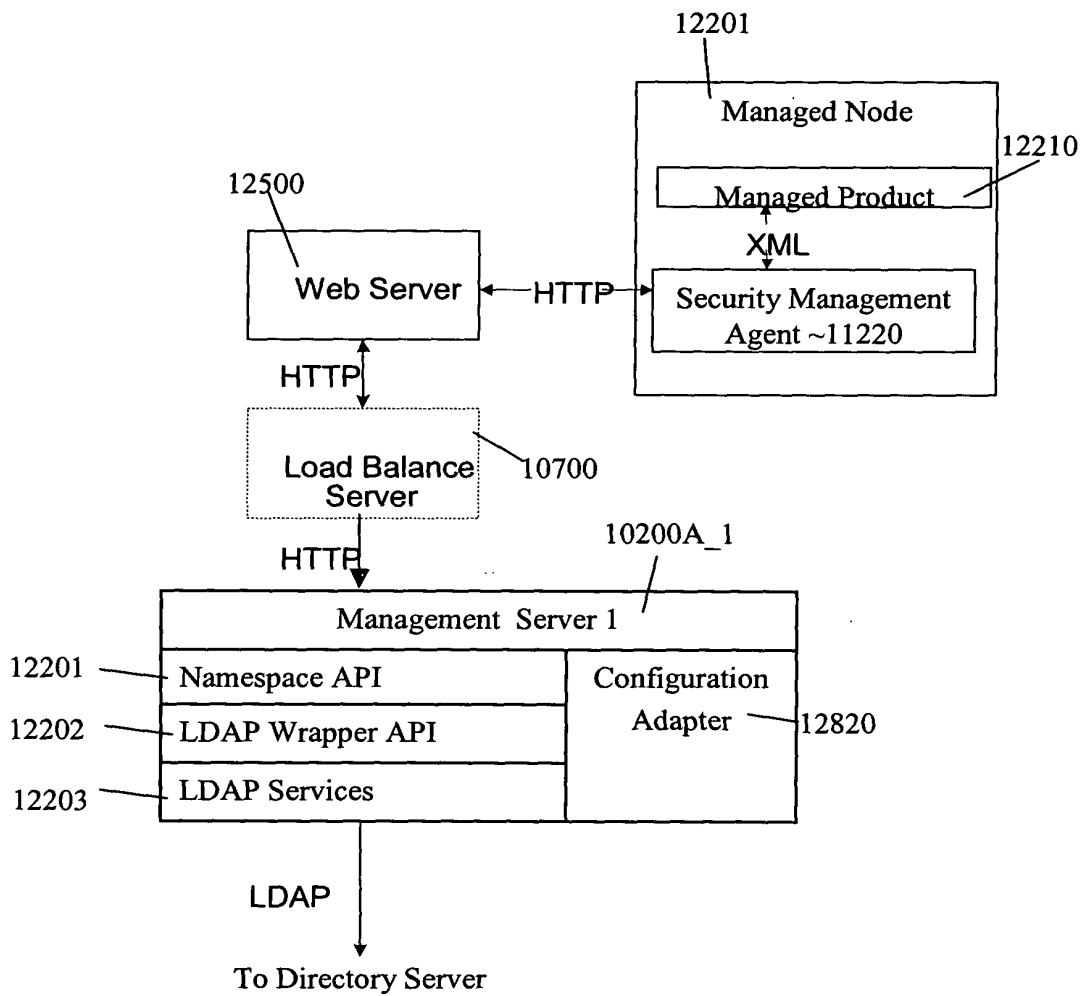


Fig. 12B

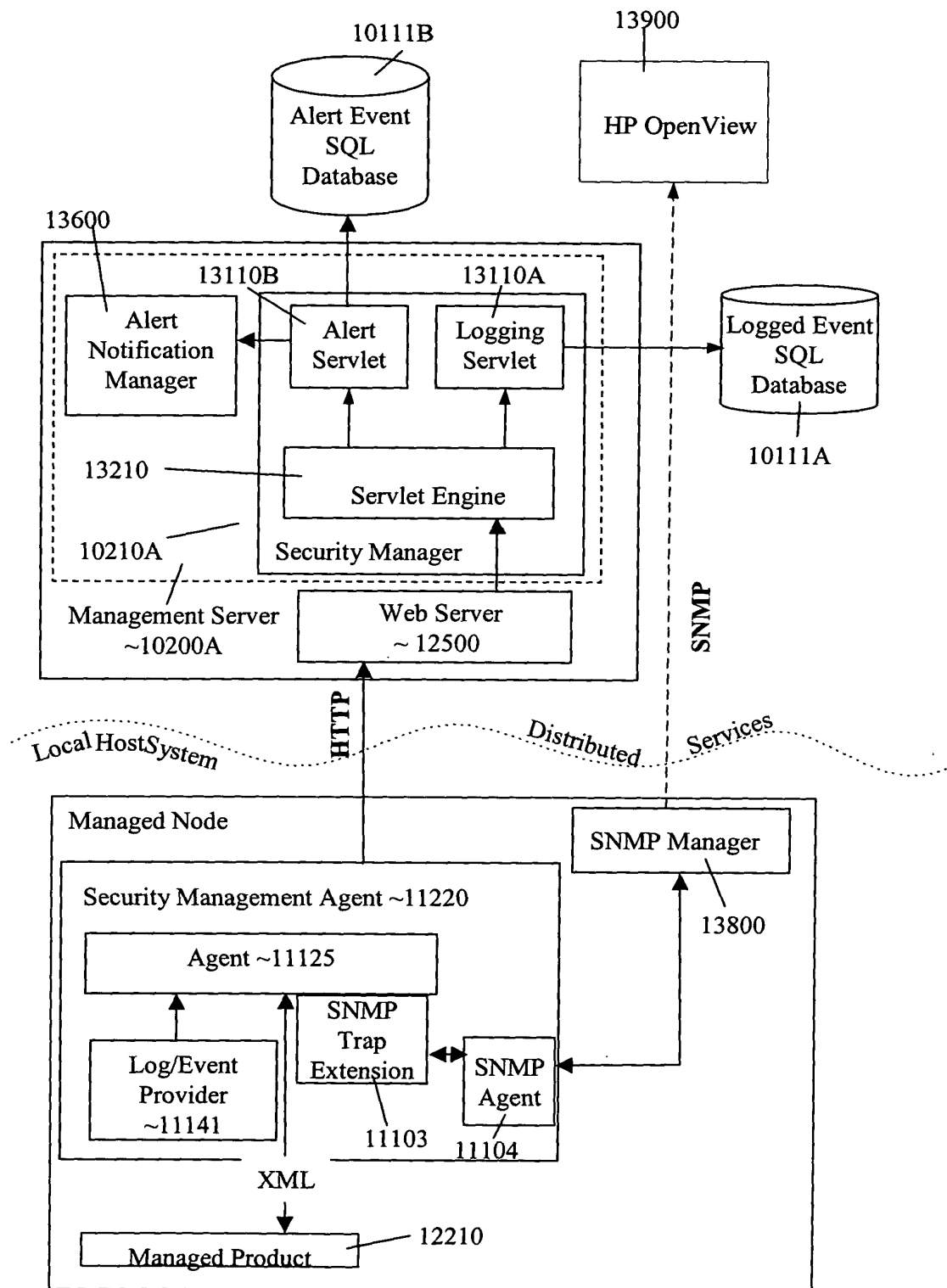


Fig. 13

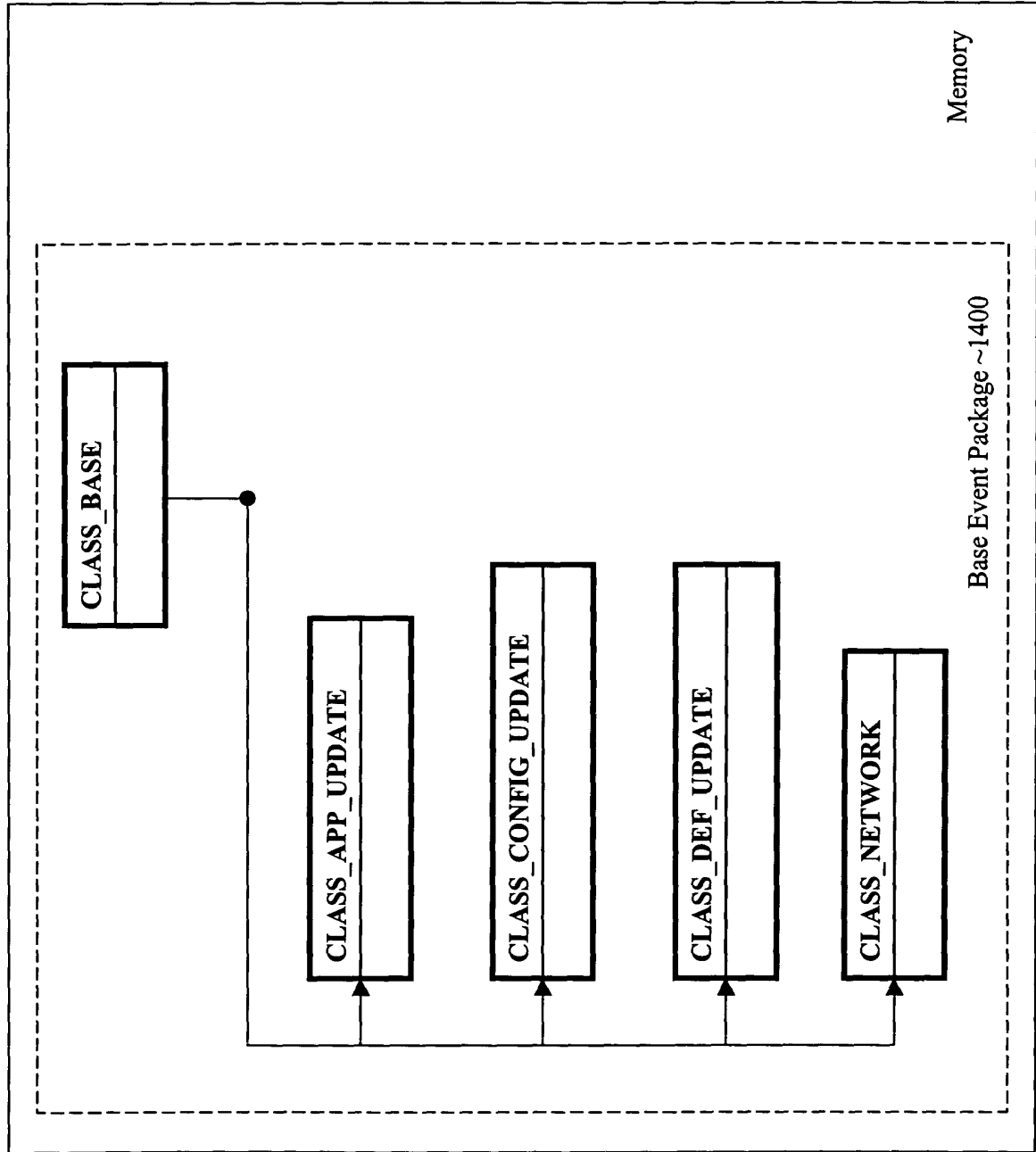


FIG. 14

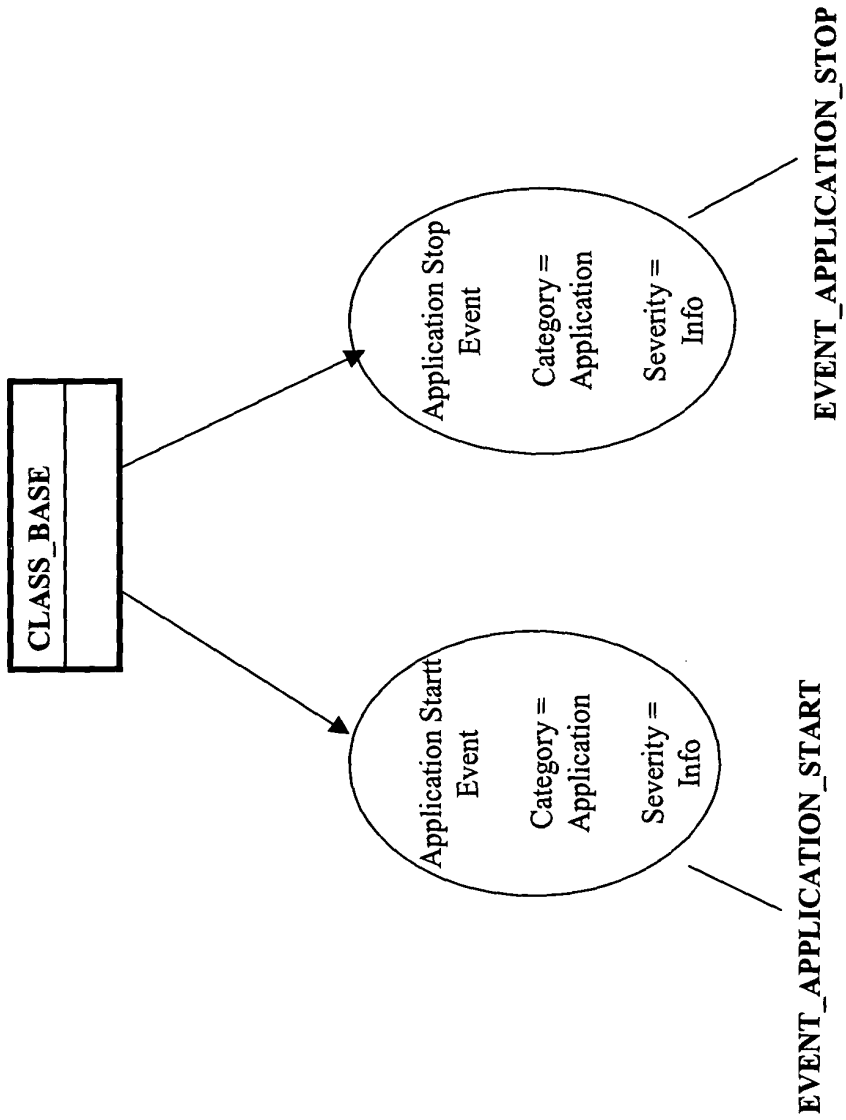


FIG. 15A

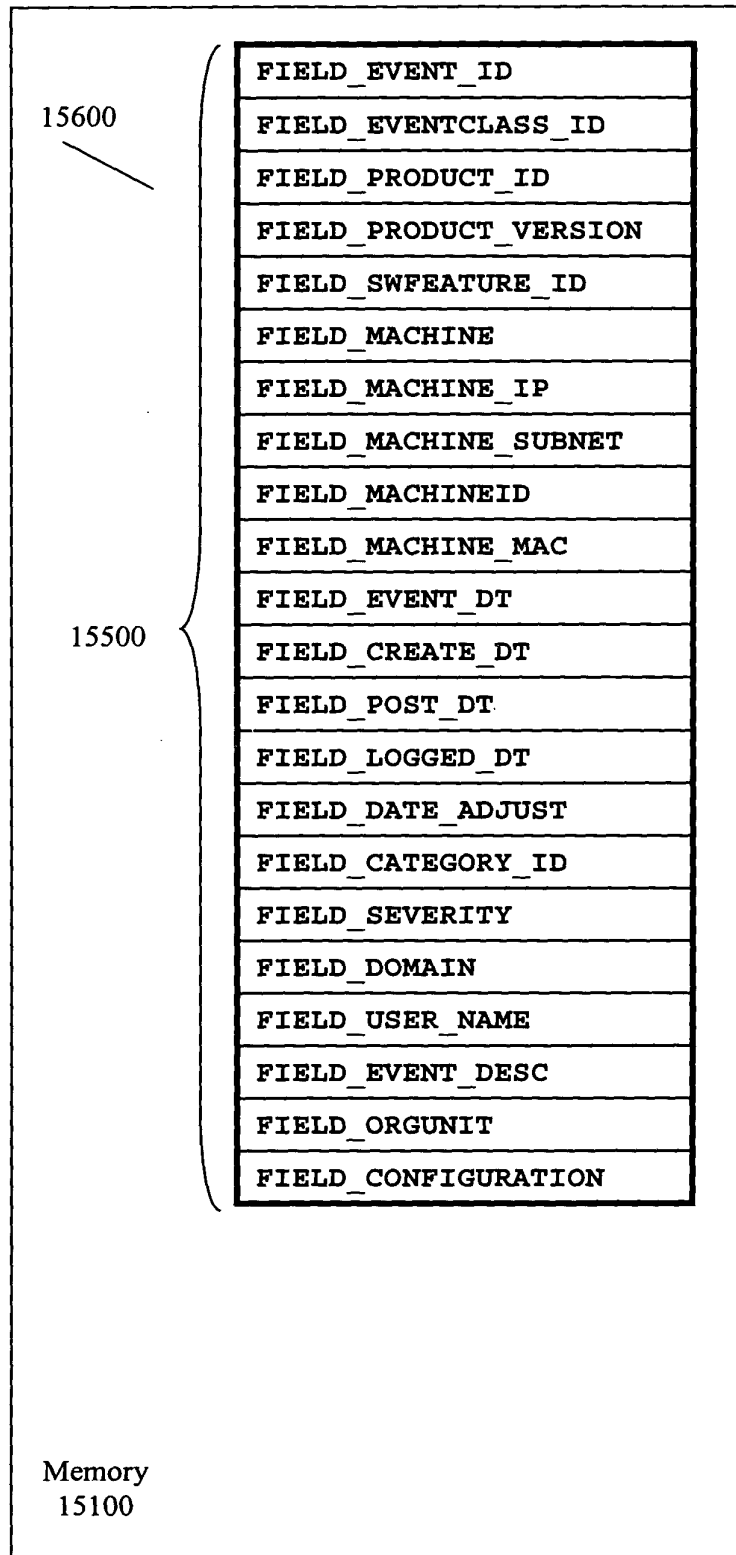


Fig. 15B

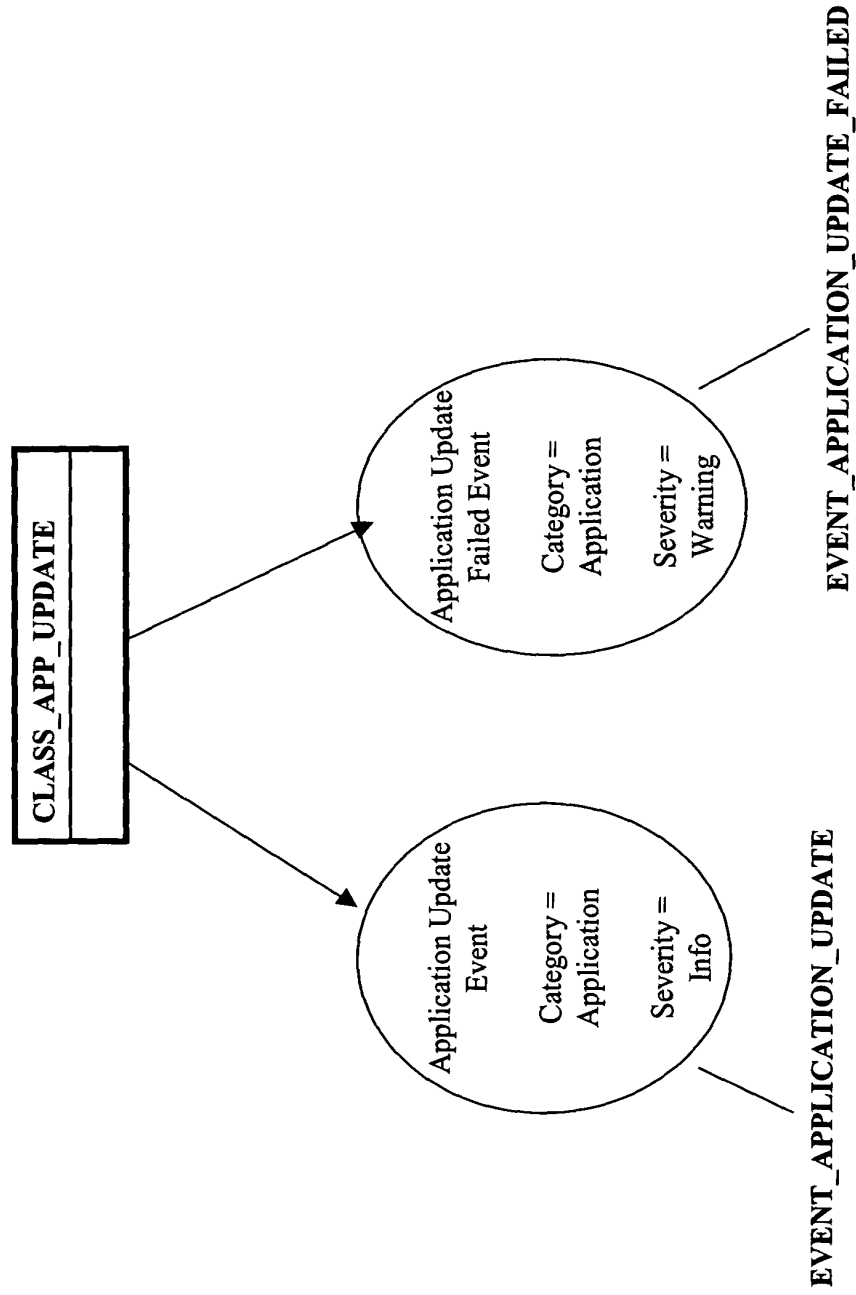


FIG. 16A

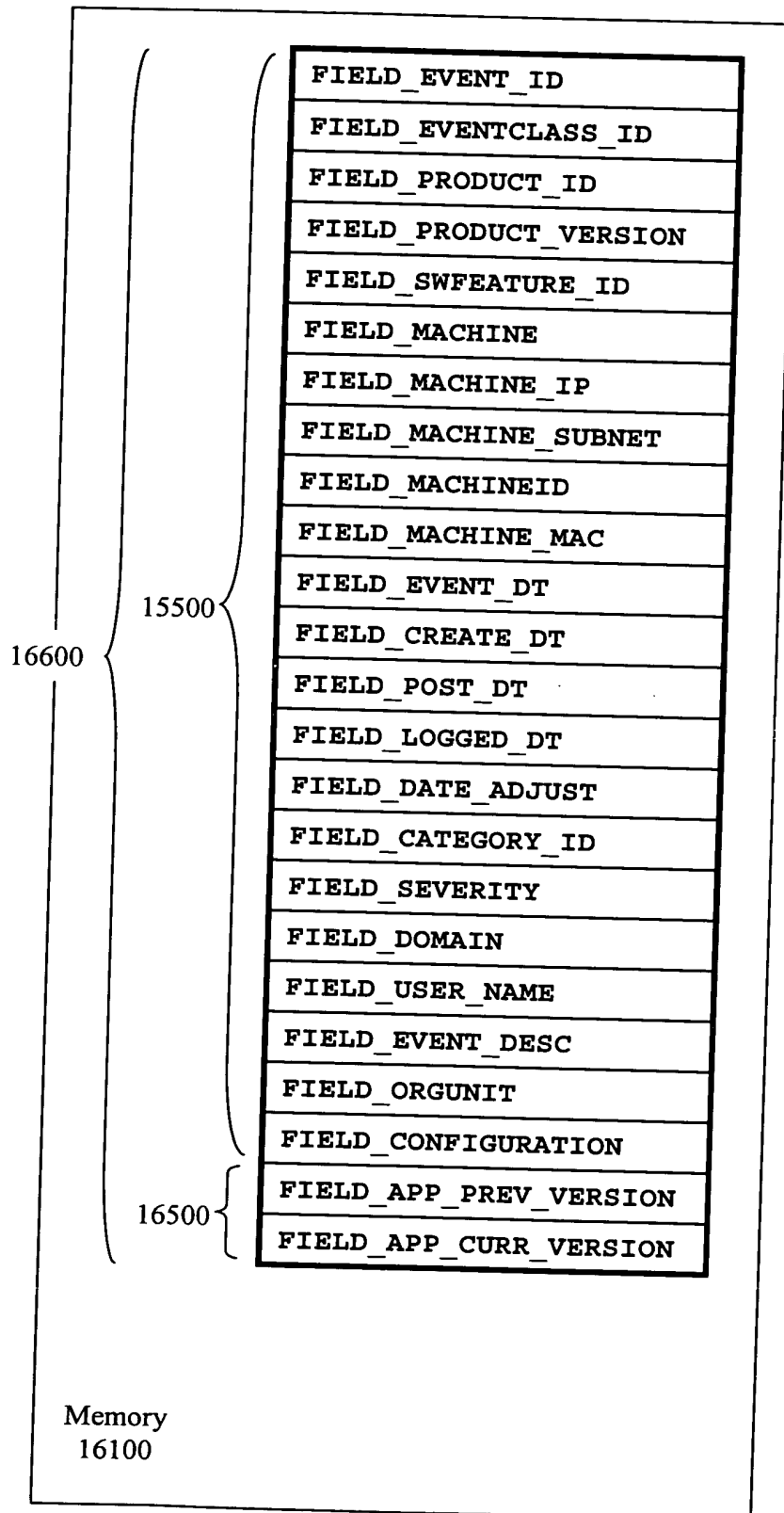


Fig. 16B

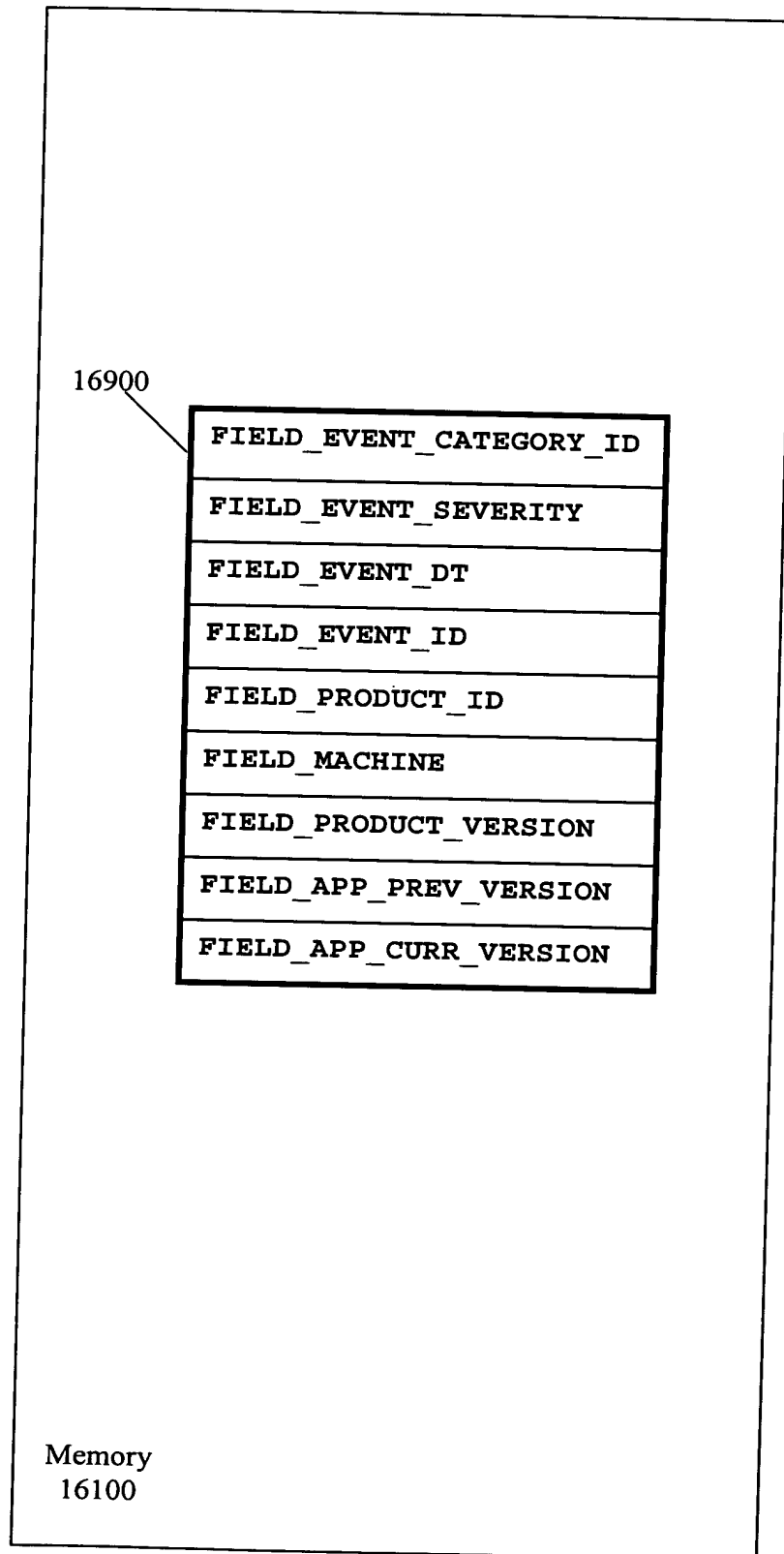


Fig. 16C

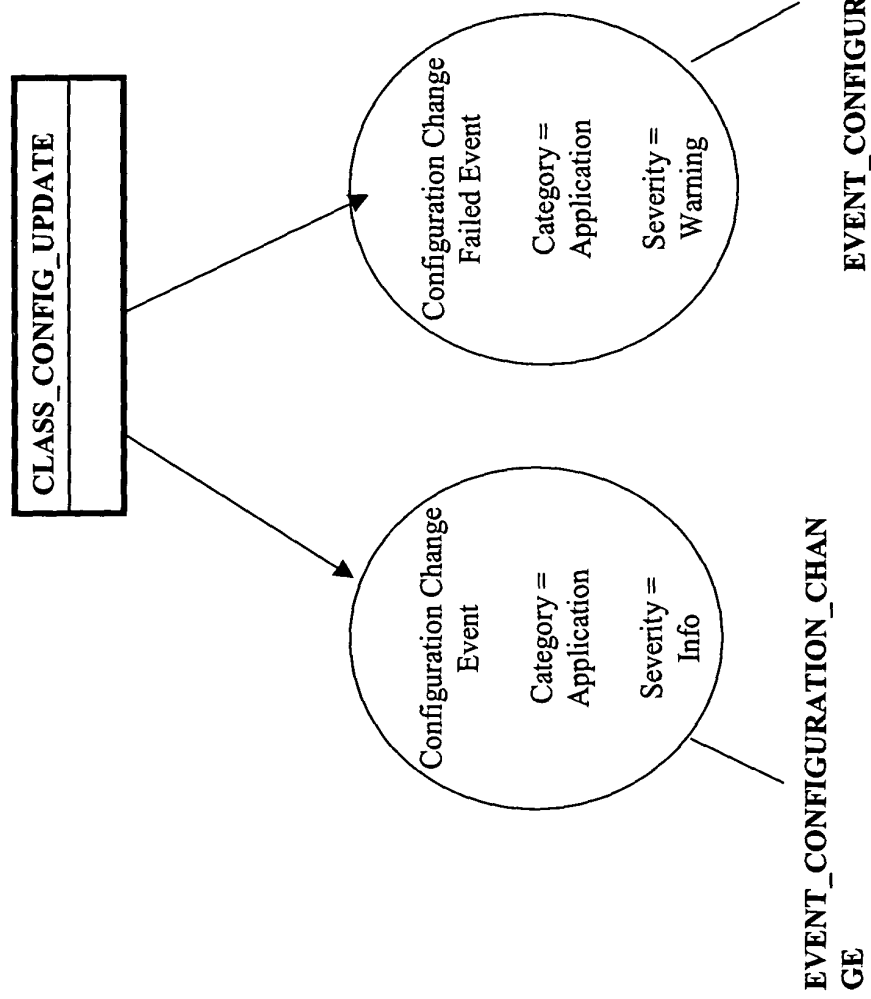


FIG. 17A

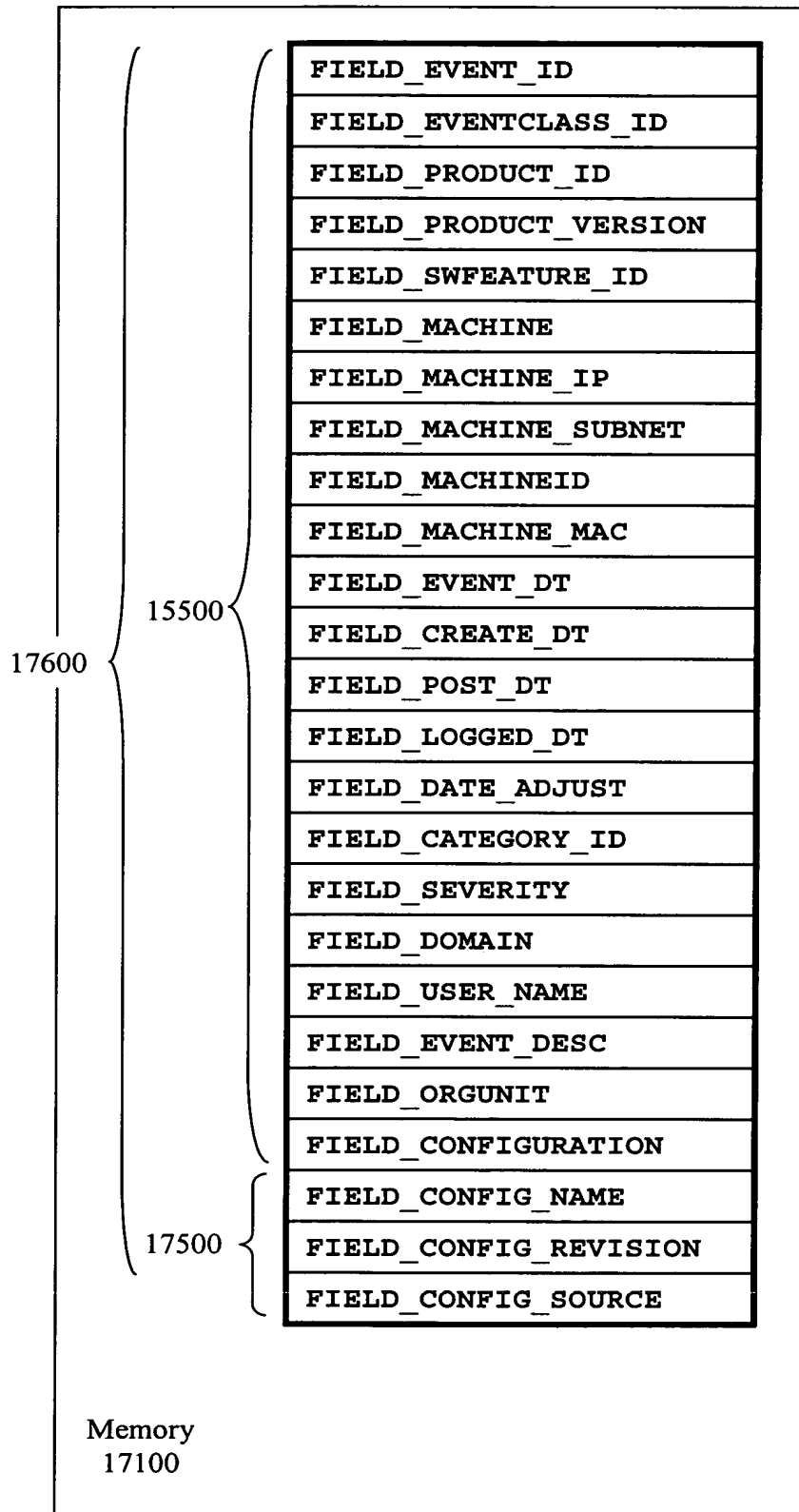


Fig. 17B

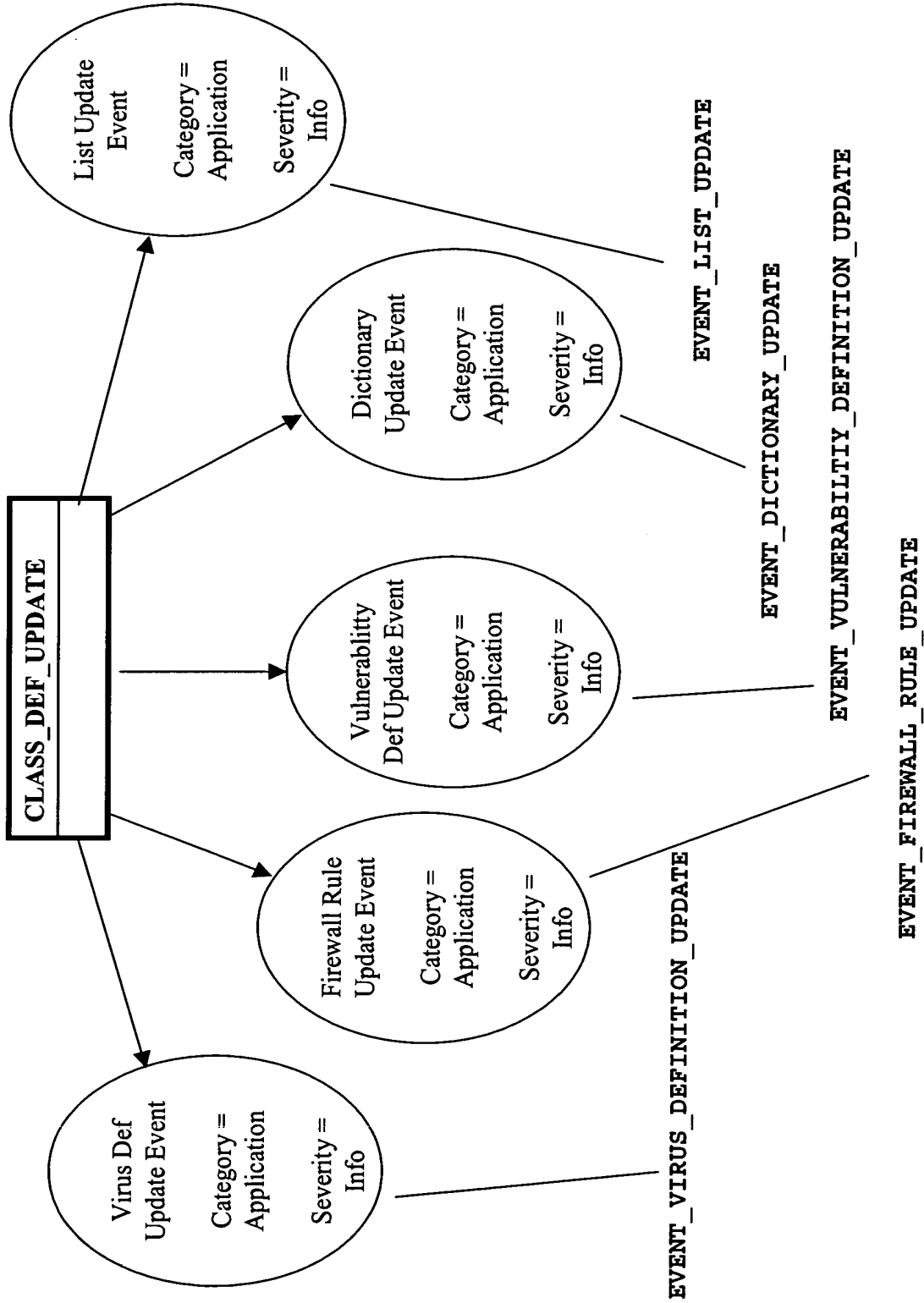


FIG. 18A

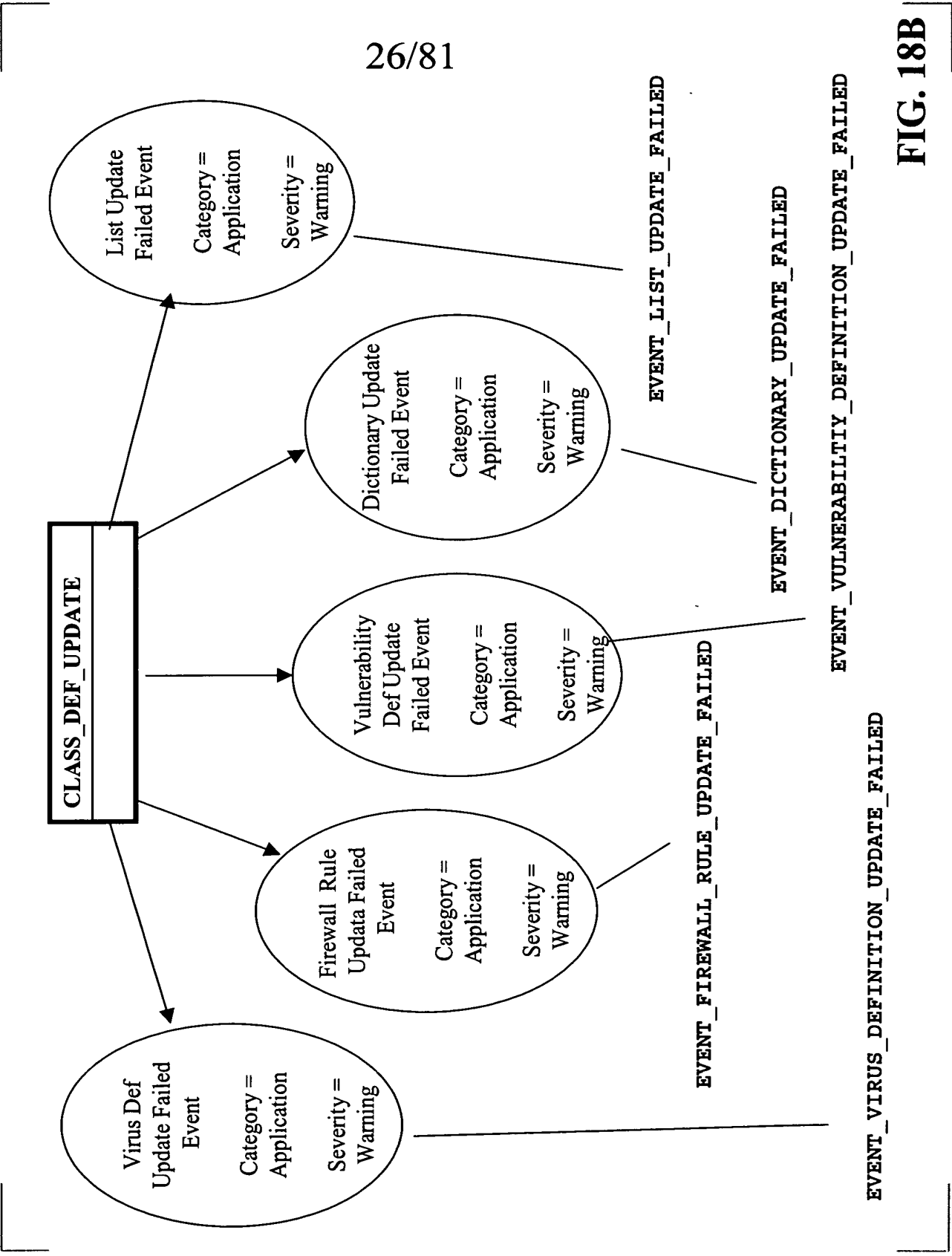


FIG. 18B

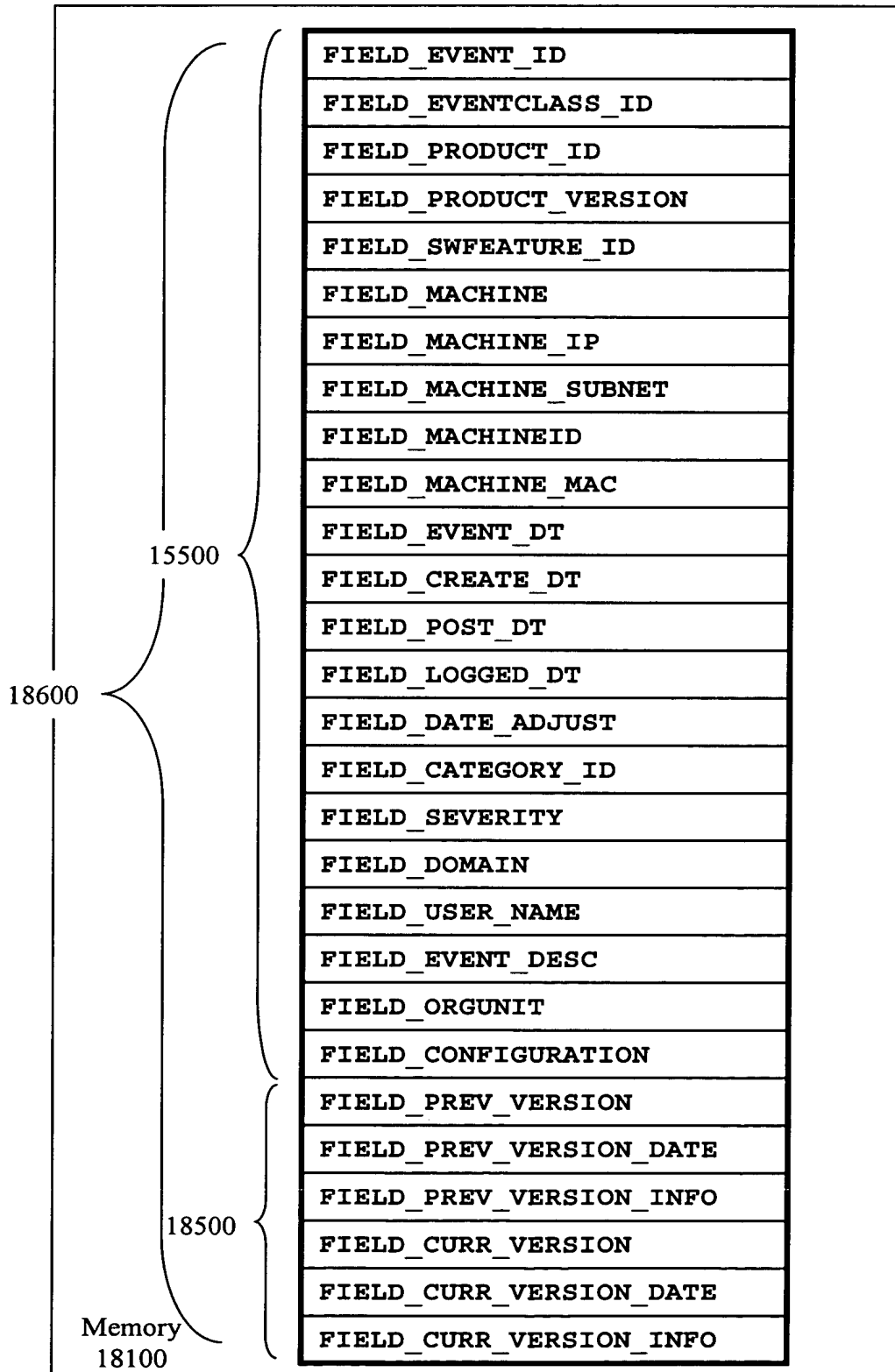


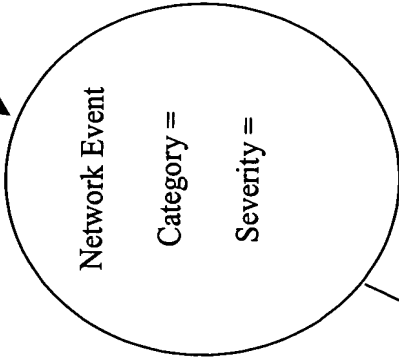
Fig. 18C

18900

FIELD_EVENT_CATEGORY_ID
FIELD_EVENT_SEVERITY
FIELD_EVENT_DT
FIELD_EVENT_ID
FIELD_PRODUCT_ID
FIELD_MACHINE
FIELD_PRODUCT_VERSION
FIELD_PREV_VERSION
FIELD_CURR_VERSION
FIELD_PREV_VERSION_DATE
FIELD_CURR_VERSION_DATE
FIELD_PREV_VERSION_INFO
FIELD_CURR_VERSION_INFO

Memory
18100

Fig. 18D



EVENT_NETWORK_EVENT

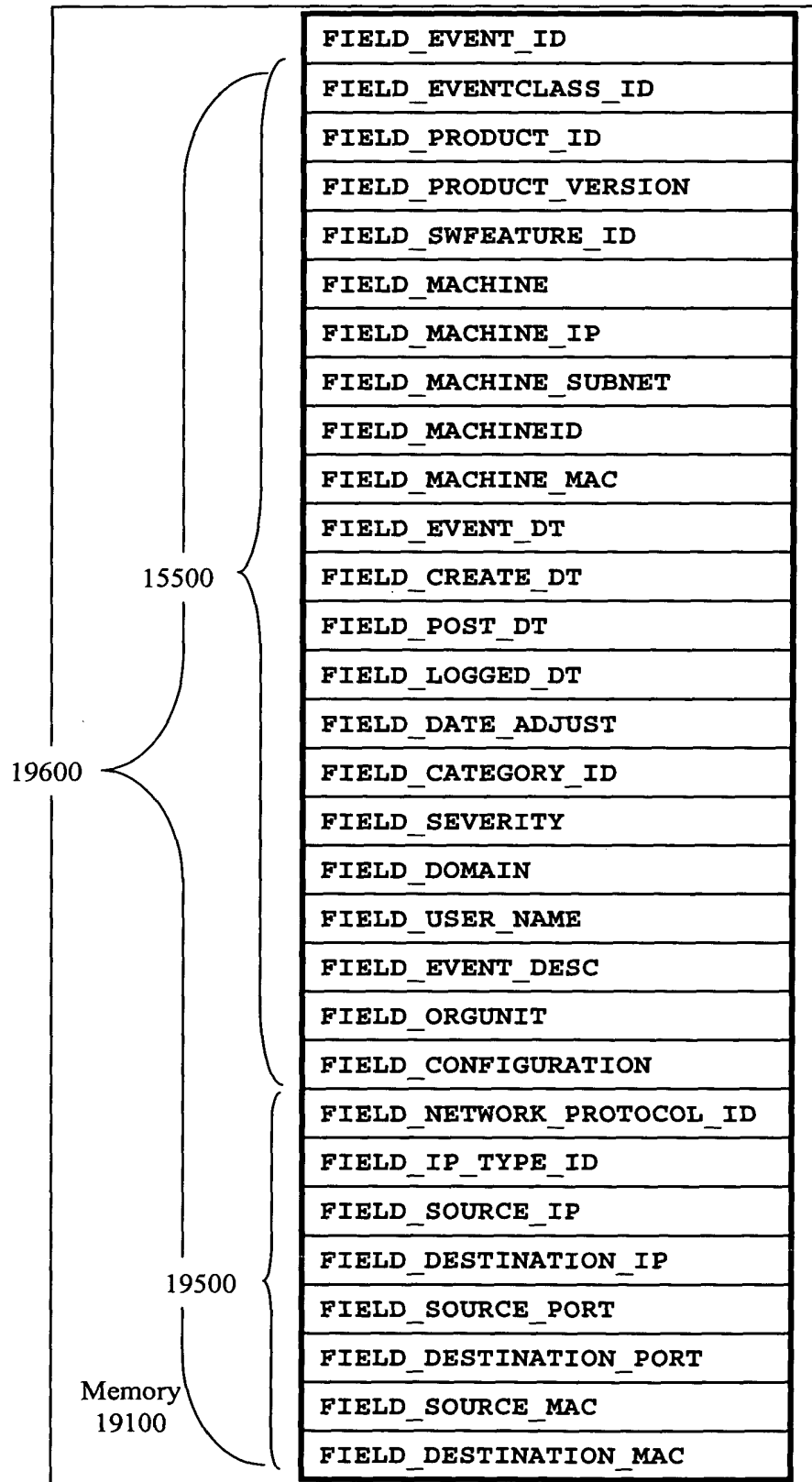


Fig. 19B

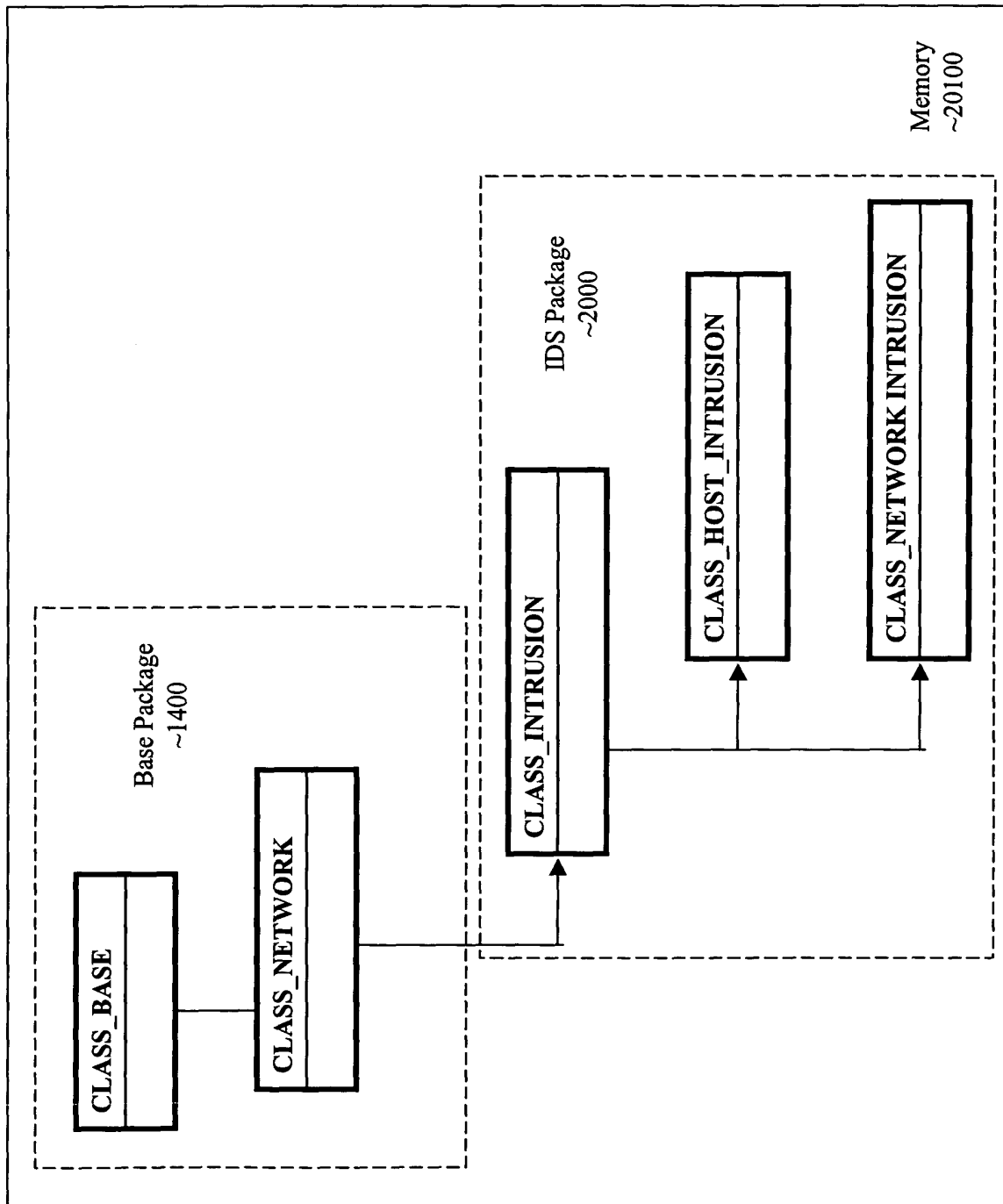


FIG. 20

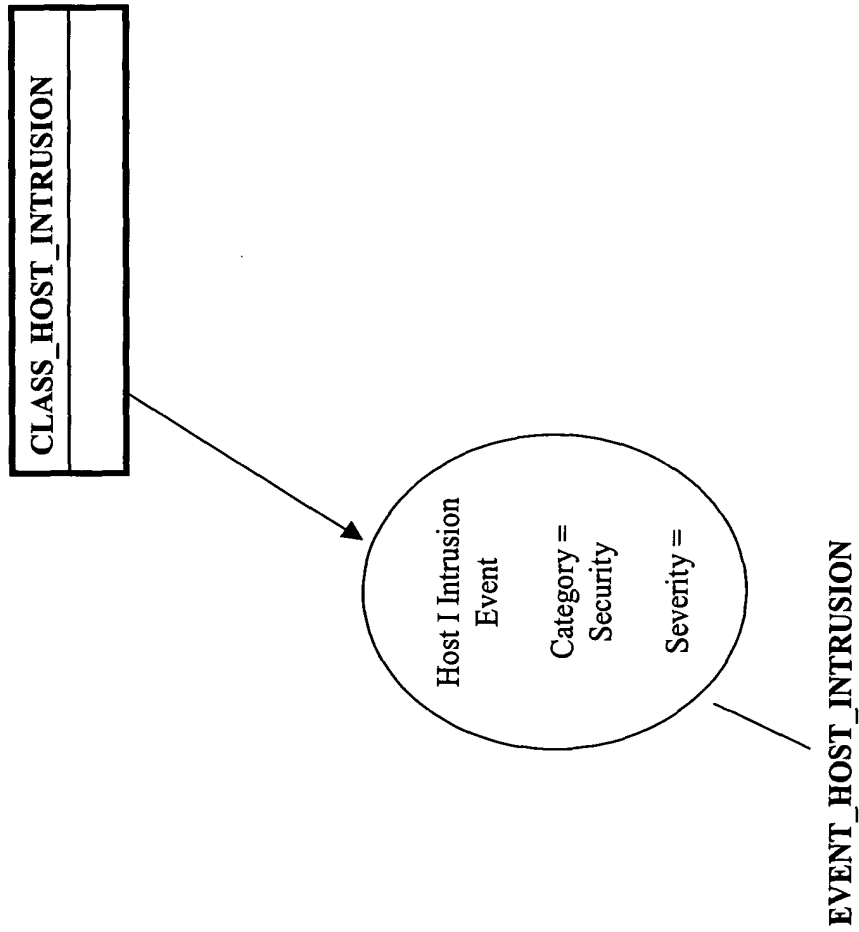


FIG. 21A

Fig. 21B_1

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The diagram shows a vertical list of 28 fields. A bracket on the left groups the first 18 fields, with an arrow pointing to the label '21600' and the number '15500' below it. Another bracket groups the last 10 fields, with the number '19500' to its left. At the bottom left, the text 'Memory 21100' is present.

FIELD_EVENT_ID
FIELD_EVENTCLASS_ID
FIELD_PRODUCT_ID
FIELD_PRODUCT_VERSION
FIELD_SWFEATURE_ID
FIELD_MACHINE
FIELD_MACHINE_IP
FIELD_MACHINE_SUBNET
FIELD_MACHINEID
FIELD_MACHINE_MAC
FIELD_EVENT_DT
FIELD_CREATE_DT
FIELD_POST_DT
FIELD_LOGGED_DT
FIELD_DATE_ADJUST
FIELD_CATEGORY_ID
FIELD_SEVERITY
FIELD_DOMAIN
FIELD_USER_NAME
FIELD_EVENT_DESC
FIELD_ORGUNIT
FIELD_CONFIGURATION
FIELD_NETWORK_PROTOCOL_ID
FIELD_IP_TYPE_ID
FIELD_SOURCE_IP
FIELD_DESTINATION_IP
FIELD_SOURCE_PORT
FIELD_DESTINATION_PORT
FIELD_SOURCE_MAC
FIELD_DESTINATION_MAC

21600

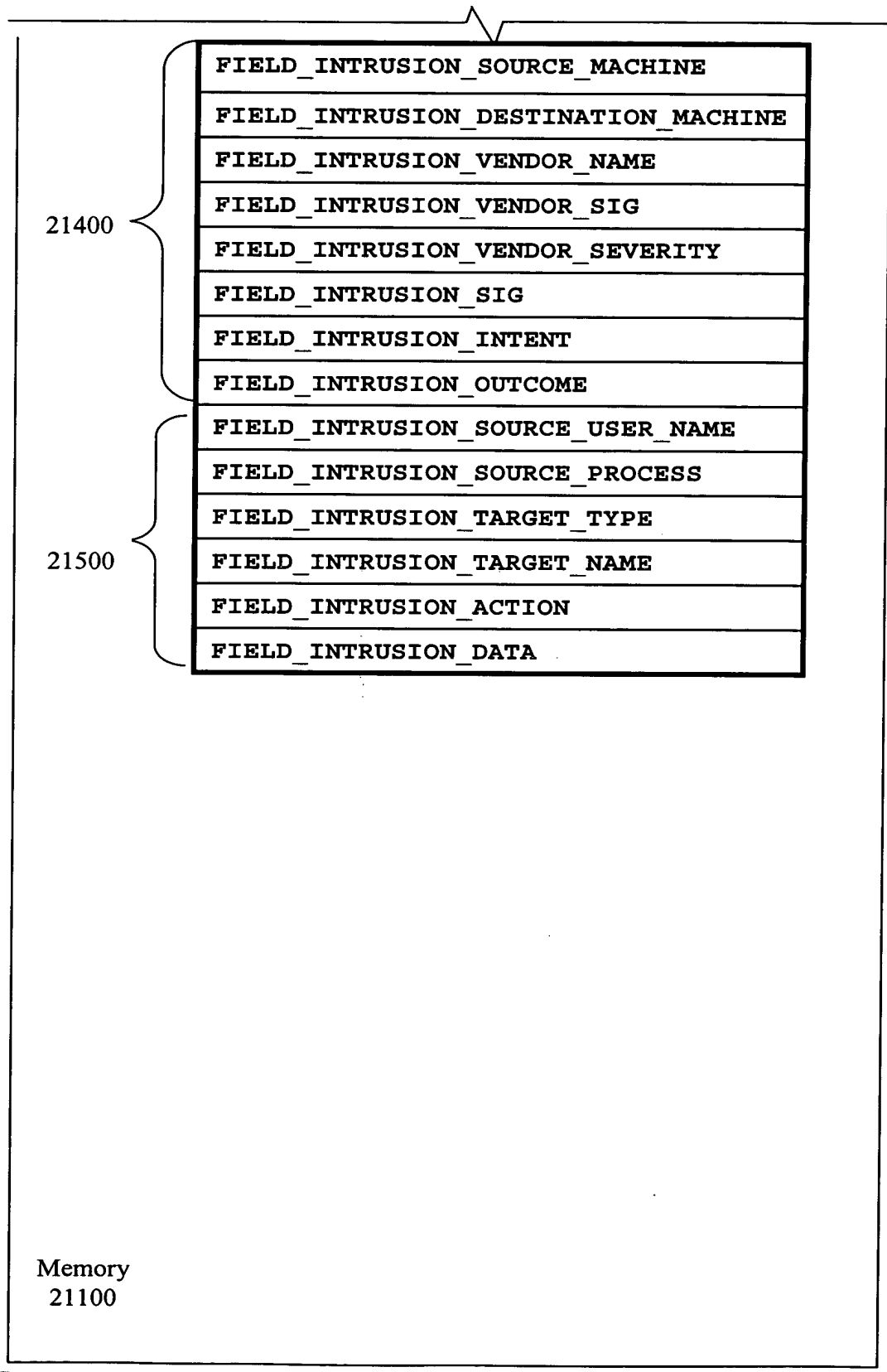
15500

19500

Memory
21100

Fig. 21B_2

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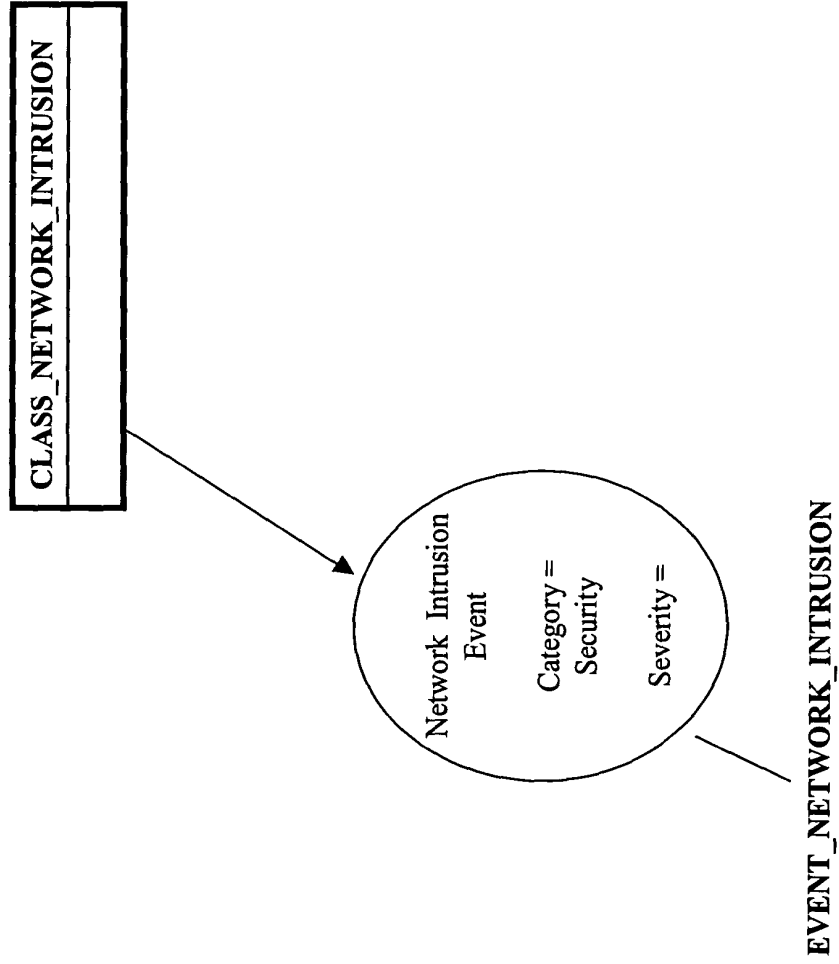


Fig. 22B_1

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22600

15500

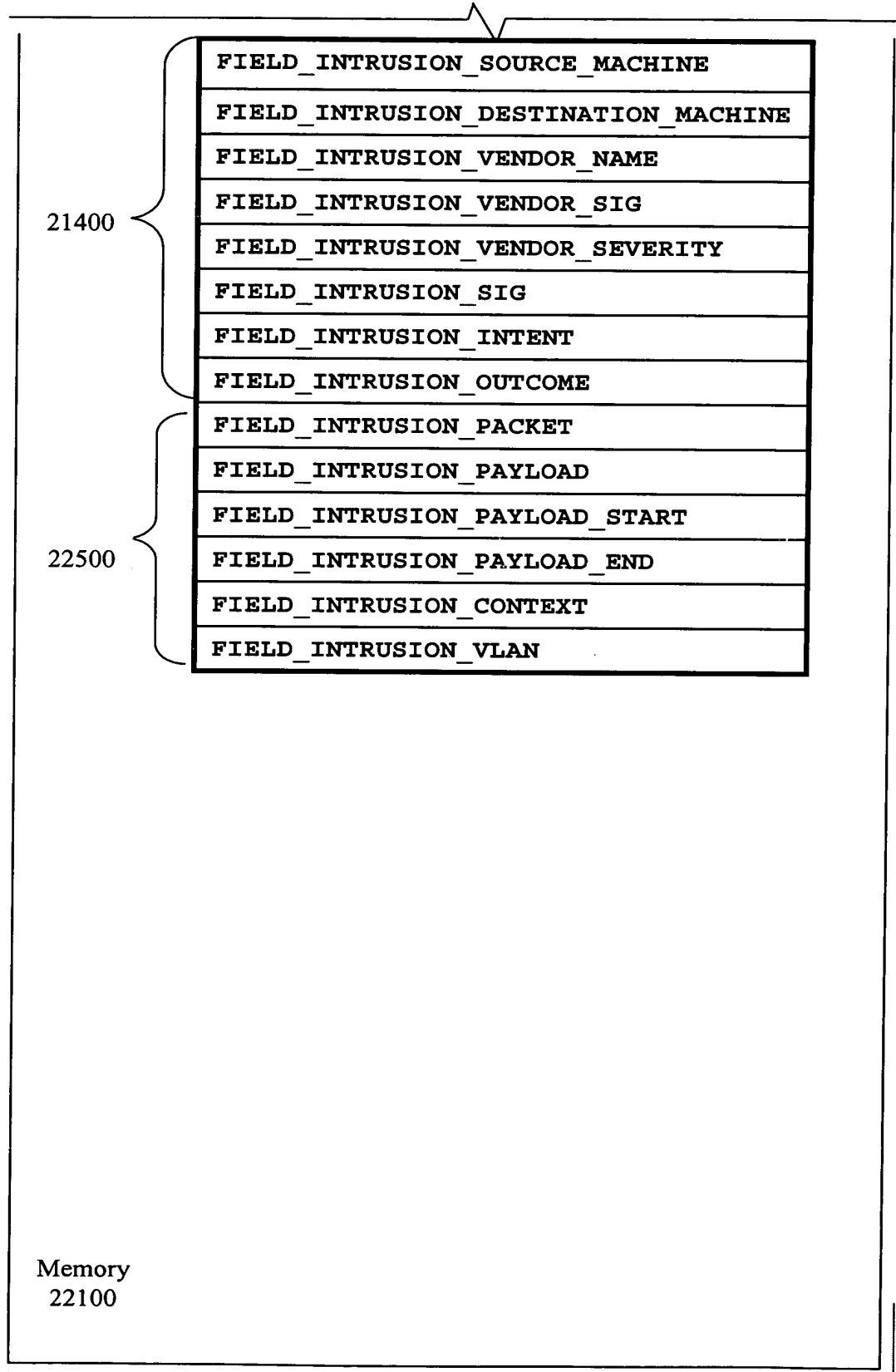
19500

Memory
22100

FIELD_EVENT_ID
FIELD_EVENTCLASS_ID
FIELD_PRODUCT_ID
FIELD_PRODUCT_VERSION
FIELD_SWFEATURE_ID
FIELD_MACHINE
FIELD_MACHINE_IP
FIELD_MACHINE_SUBNET
FIELD_MACHINEID
FIELD_MACHINE_MAC
FIELD_EVENT_DT
FIELD_CREATE_DT
FIELD_POST_DT
FIELD_LOGGED_DT
FIELD_DATE_ADJUST
FIELD_CATEGORY_ID
FIELD_SEVERITY
FIELD_DOMAIN
FIELD_USER_NAME
FIELD_EVENT_DESC
FIELD_ORGUNIT
FIELD_CONFIGURATION
FIELD_NETWORK_PROTOCOL_ID
FIELD_IP_TYPE_ID
FIELD_SOURCE_IP
FIELD_DESTINATION_IP
FIELD_SOURCE_PORT
FIELD_DESTINATION_PORT
FIELD_SOURCE_MAC
FIELD_DESTINATION_MAC

Fig. 22B_2

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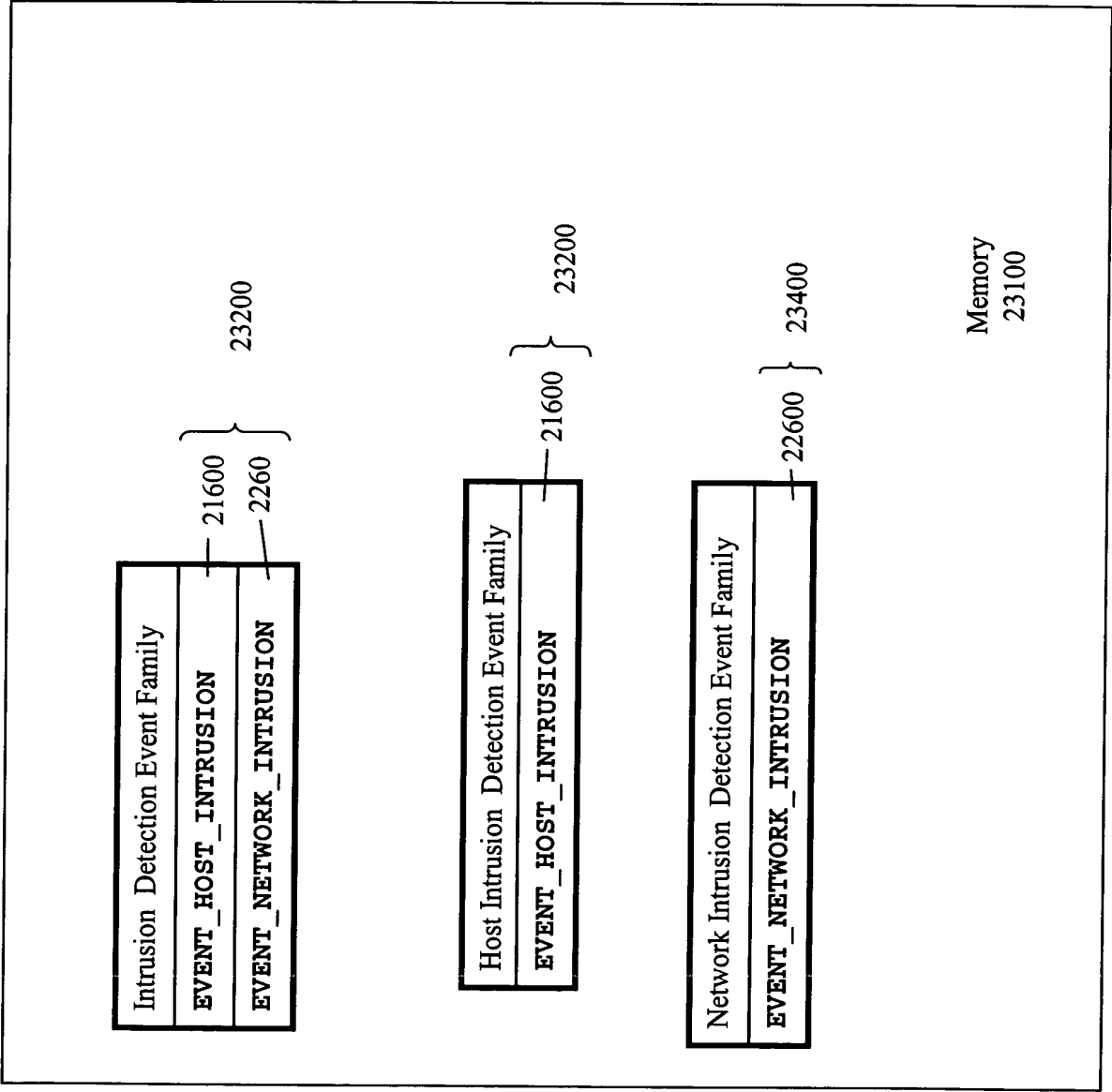


FIG. 23

Fig. 24

24900

FIELD_EVENT_CATEGORY_ID
FIELD_EVENT_SEVERITY
FIELD_EVENT_DT
FIELD_EVENT_ID
FIELD_PRODUCT_ID
FIELD_PRODUCT_VERSION
FIELD_SWFEATURE_ID
FIELD_USER_NAME
FIELD_MACHINE
FIELD_EVENT_DESC
FIELD_INTRUSION_VENDOR_NAME
FIELD_INTRUSION_VENDOR_SIG
FIELD_INTRUSION_SIG
FIELD_INTRUSION_SOURCE_USER_NAME
FIELD_INTRUSION_SOURCE_COMPUTER
FIELD_INTRUSION_SOURCE_PROCESS
FIELD_INTRUSION_TARGET_TYPE
FIELD_INTRUSION_TARGET
FIELD_INTRUSION_ACTION
FIELD_INTRUSION_INTENT
FIELD_INTRUSION_OUTCOME

Memory
24100

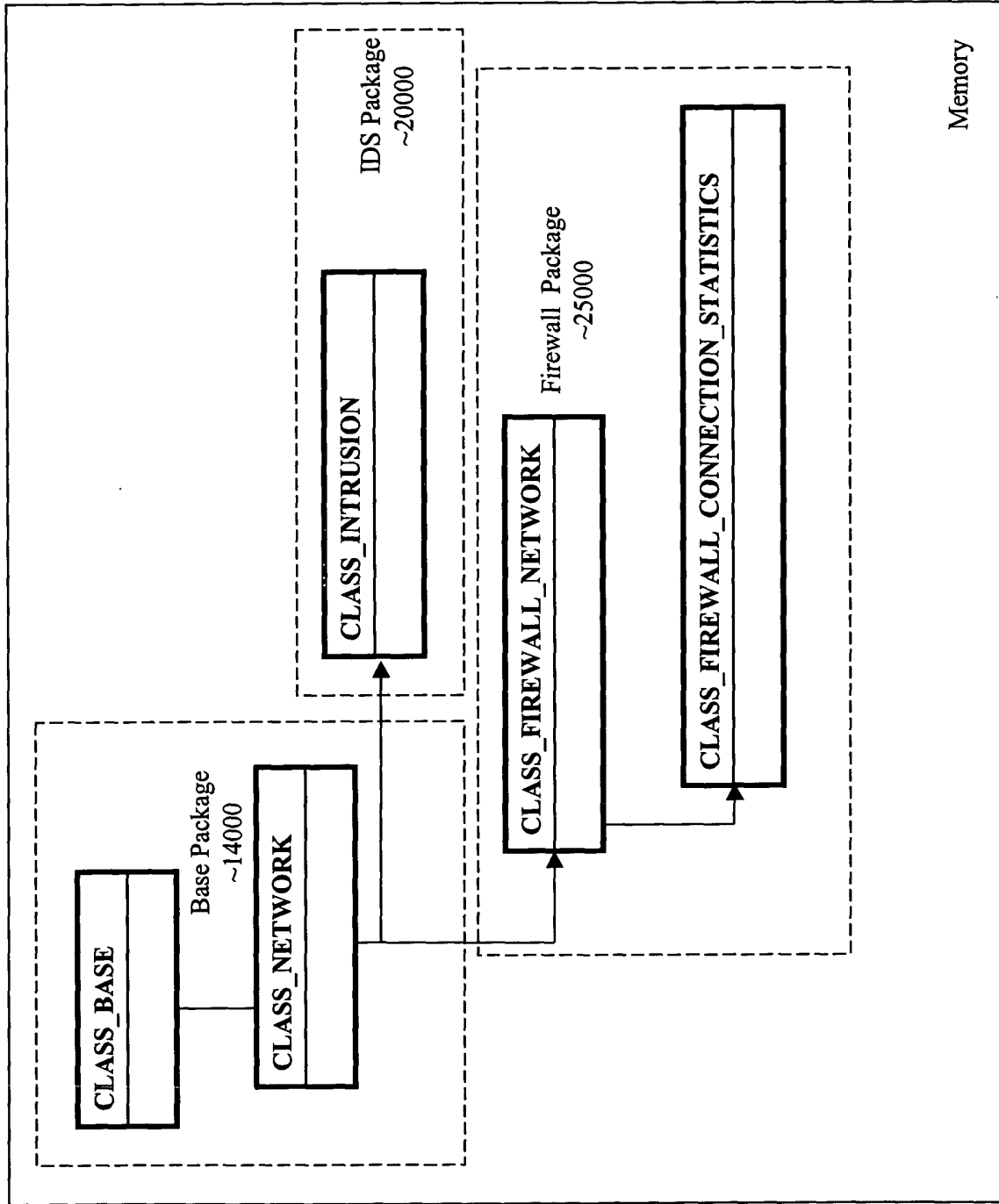


FIG. 25

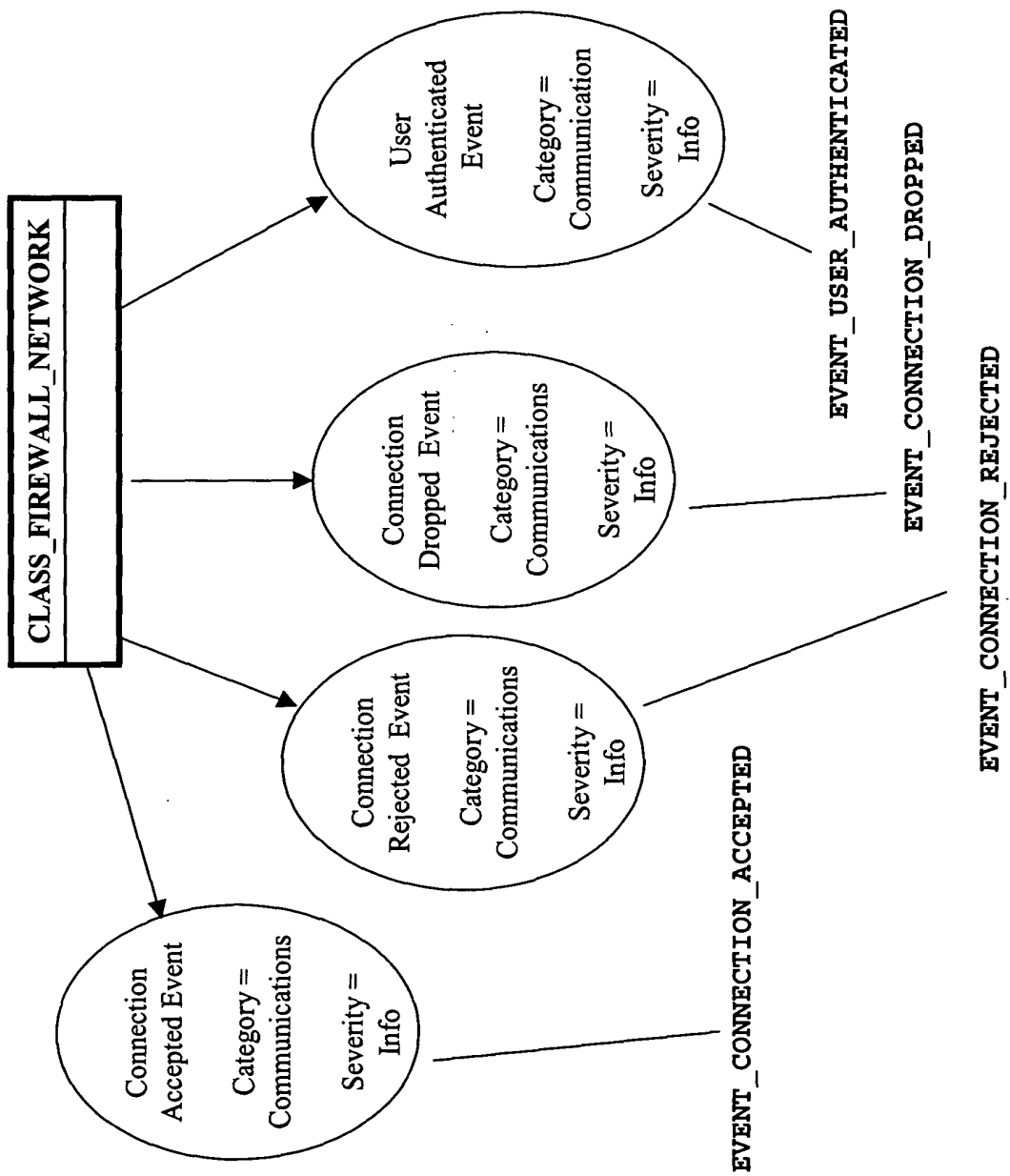


FIG. 26A

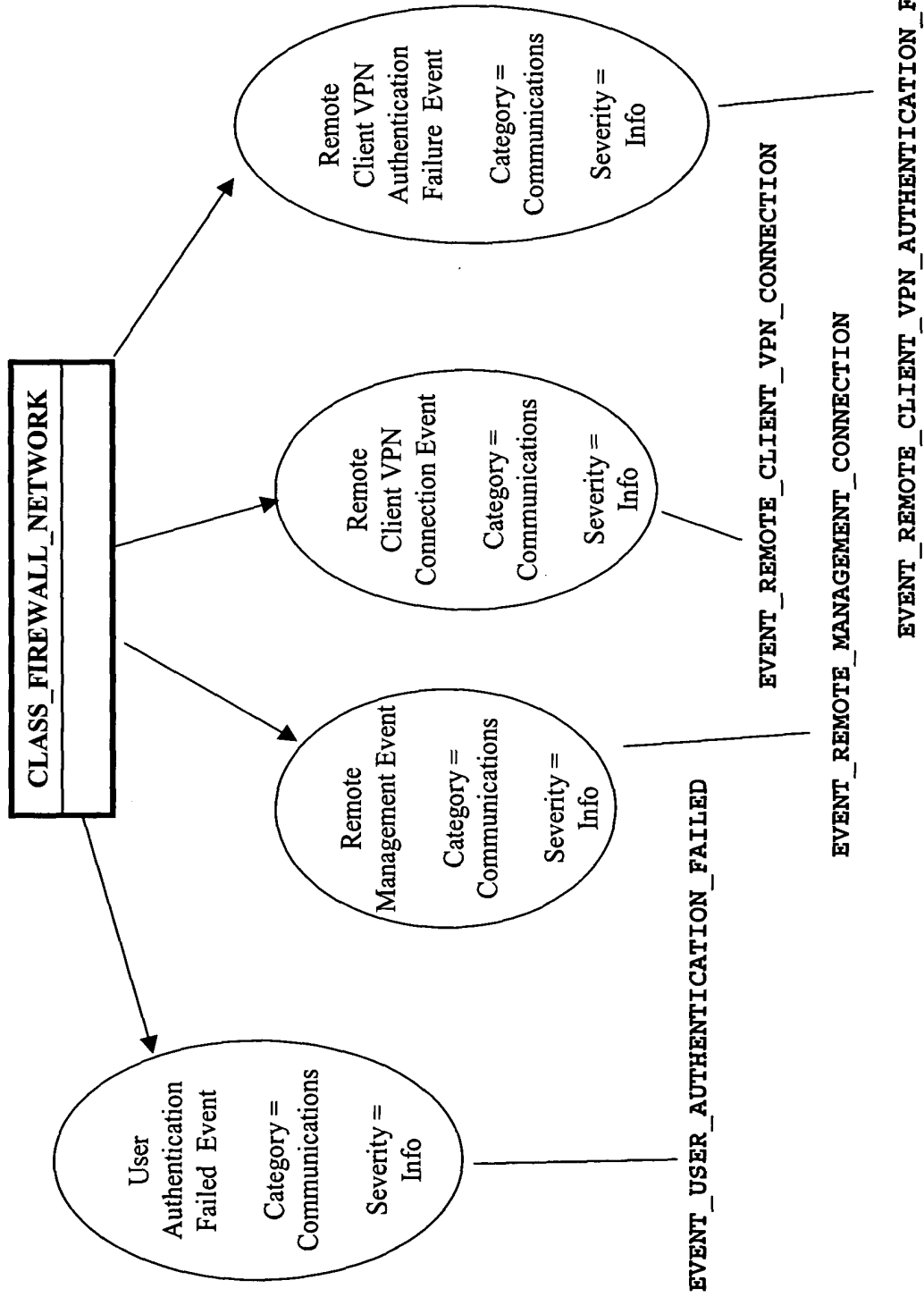


FIG. 26B

Fig. 26C_1

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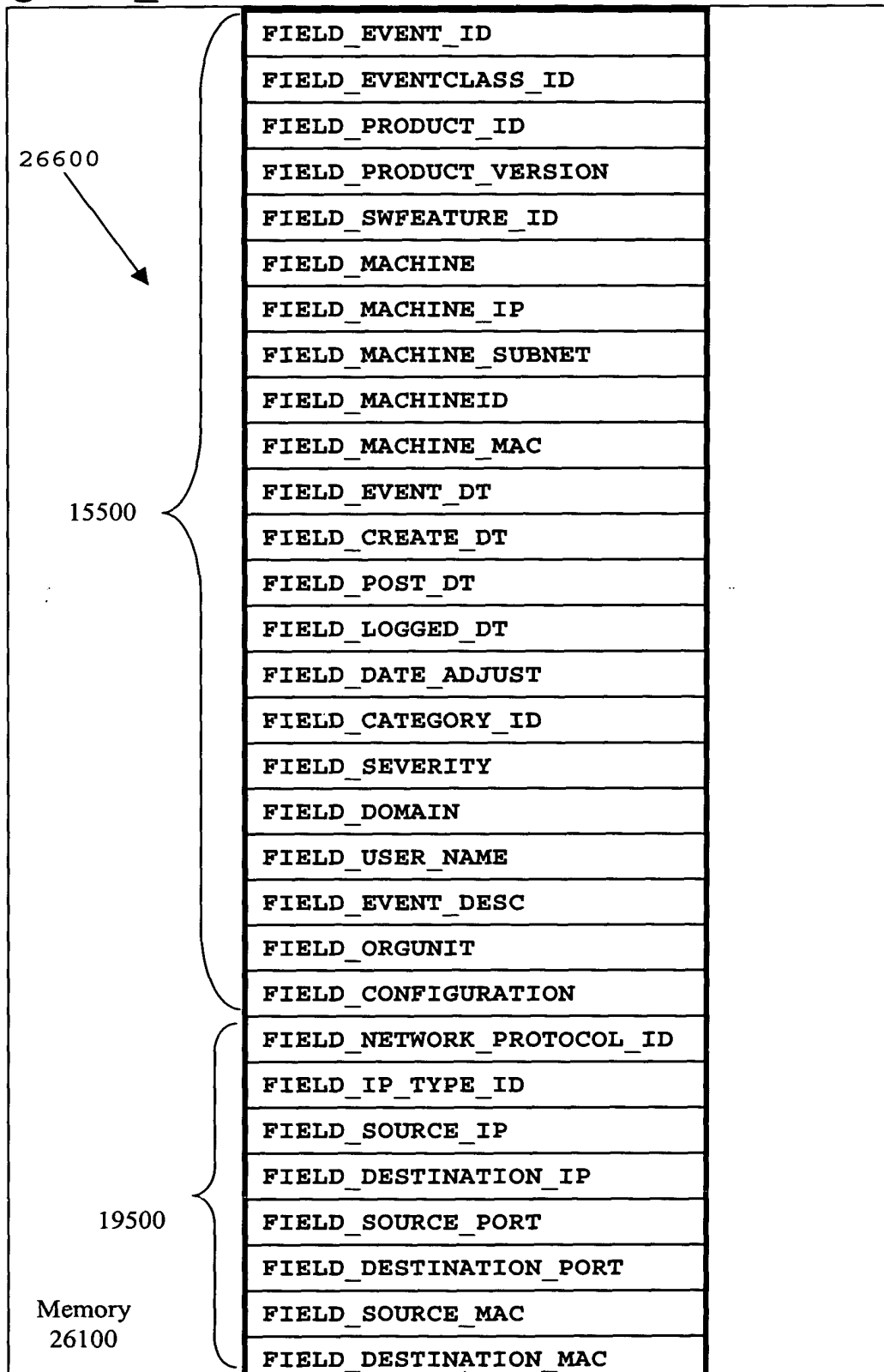
26600 15500 19500 Memory 26100		FIELD_EVENT_ID
		FIELD_EVENTCLASS_ID
		FIELD_PRODUCT_ID
		FIELD_PRODUCT_VERSION
		FIELD_SWFEATURE_ID
		FIELD_MACHINE
		FIELD_MACHINE_IP
		FIELD_MACHINE_SUBNET
		FIELD_MACHINEID
		FIELD_MACHINE_MAC
		FIELD_EVENT_DT
		FIELD_CREATE_DT
		FIELD_POST_DT
		FIELD_LOGGED_DT
		FIELD_DATE_ADJUST
		FIELD_CATEGORY_ID
		FIELD_SEVERITY
		FIELD_DOMAIN
		FIELD_USER_NAME
		FIELD_EVENT_DESC
		FIELD_ORGUNIT
		FIELD_CONFIGURATION
		FIELD_NETWORK_PROTOCOL_ID
		FIELD_IP_TYPE_ID
		FIELD_SOURCE_IP
		FIELD_DESTINATION_IP
		FIELD_SOURCE_PORT
		FIELD_DESTINATION_PORT
		FIELD_SOURCE_MAC
		FIELD_DESTINATION_MAC

Fig. 26C_2

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26500

FIELD_SOURCE_HOST_NAME

FIELD_DESTINATION_HOST_NAME

FIELD_SOURCE_SERVICE_NAME

FIELD_DESTINATION_SERVICE_NAME

FIELD_NETWORK_DIRECTION_ID

FIELD_USER_ID

FIELD_RULE

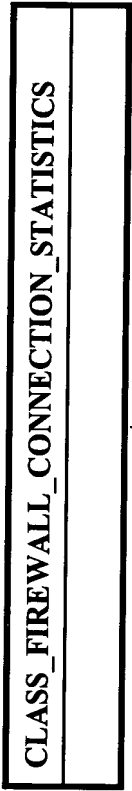
FIELD_TARGET_RESOURCE

FIELD_TARGET_DIRECTION_ID

FIELD_INTERFACE_NAME

FIELD_NW_PROTOCOL_ID

Memory
26100



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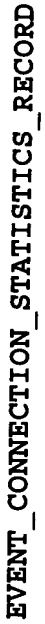
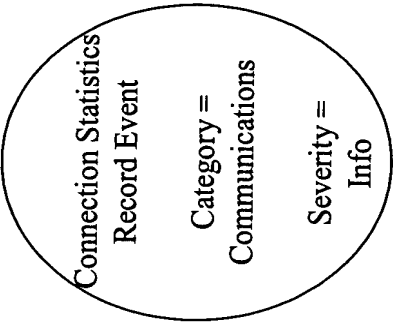


FIG. 27A

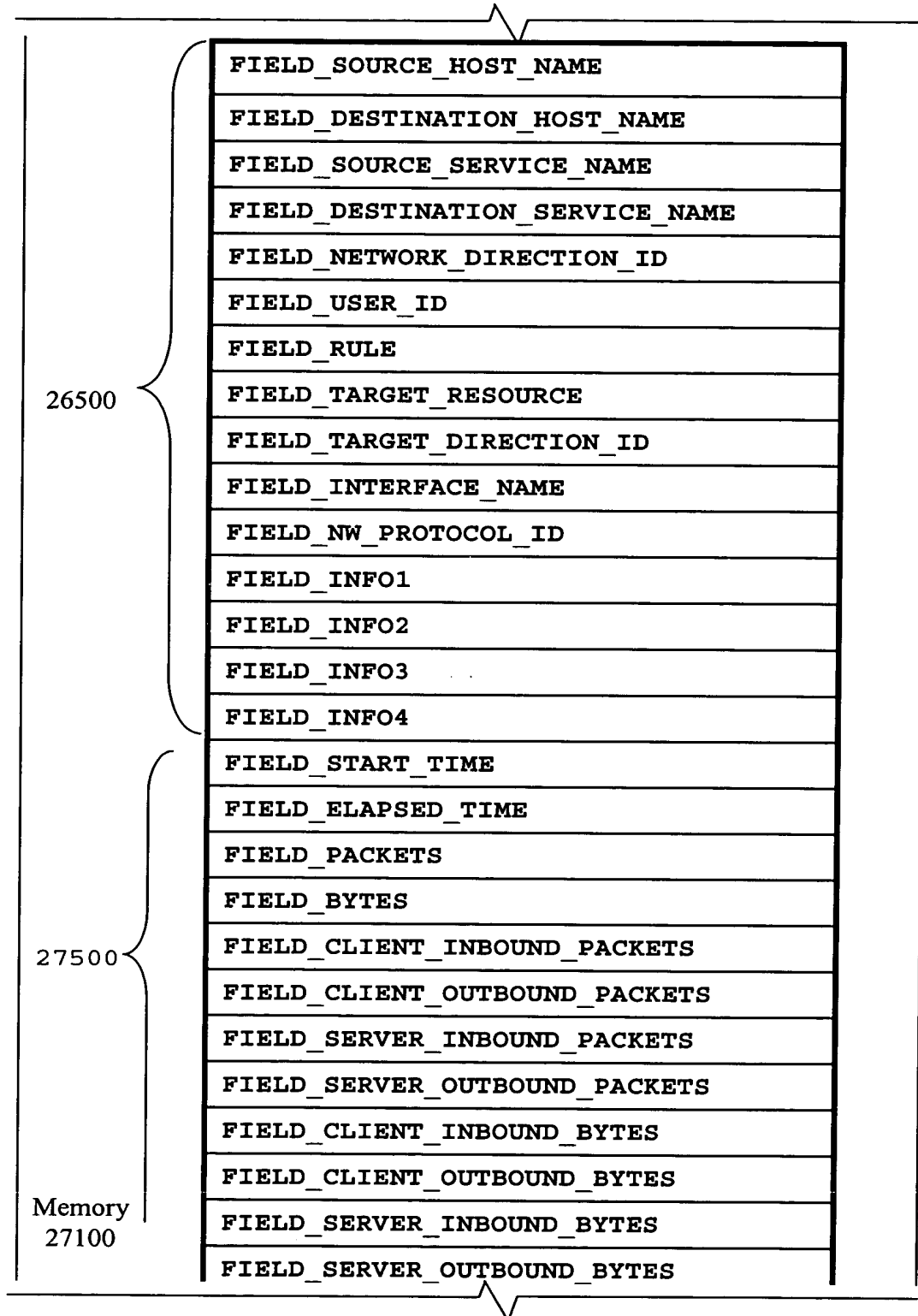
Fig. 27B_1

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27600 15500 19500 Memory 27100		FIELD_EVENT_ID
		FIELD_EVENTCLASS_ID
		FIELD_PRODUCT_ID
		FIELD_PRODUCT_VERSION
		FIELD_SWFEATURE_ID
		FIELD_MACHINE
		FIELD_MACHINE_IP
		FIELD_MACHINE_SUBNET
		FIELD_MACHINEID
		FIELD_MACHINE_MAC
		FIELD_EVENT_DT
		FIELD_CREATE_DT
		FIELD_POST_DT
		FIELD_LOGGED_DT
		FIELD_DATE_ADJUST
		FIELD_CATEGORY_ID
		FIELD_SEVERITY
		FIELD_DOMAIN
		FIELD_USER_NAME
		FIELD_EVENT_DESC
		FIELD_ORGUNIT
		FIELD_CONFIGURATION
		FIELD_NETWORK_PROTOCOL_ID
		FIELD_IP_TYPE_ID
		FIELD_SOURCE_IP
		FIELD_DESTINATION_IP
		FIELD_SOURCE_PORT
		FIELD_DESTINATION_PORT
		FIELD_SOURCE_MAC
		FIELD_DESTINATION_MAC

Fig. 27B_2

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FIELD_SOURCE_HOST_NAME
FIELD_DESTINATION_HOST_NAME
FIELD_SOURCE_SERVICE_NAME
FIELD_DESTINATION_SERVICE_NAME

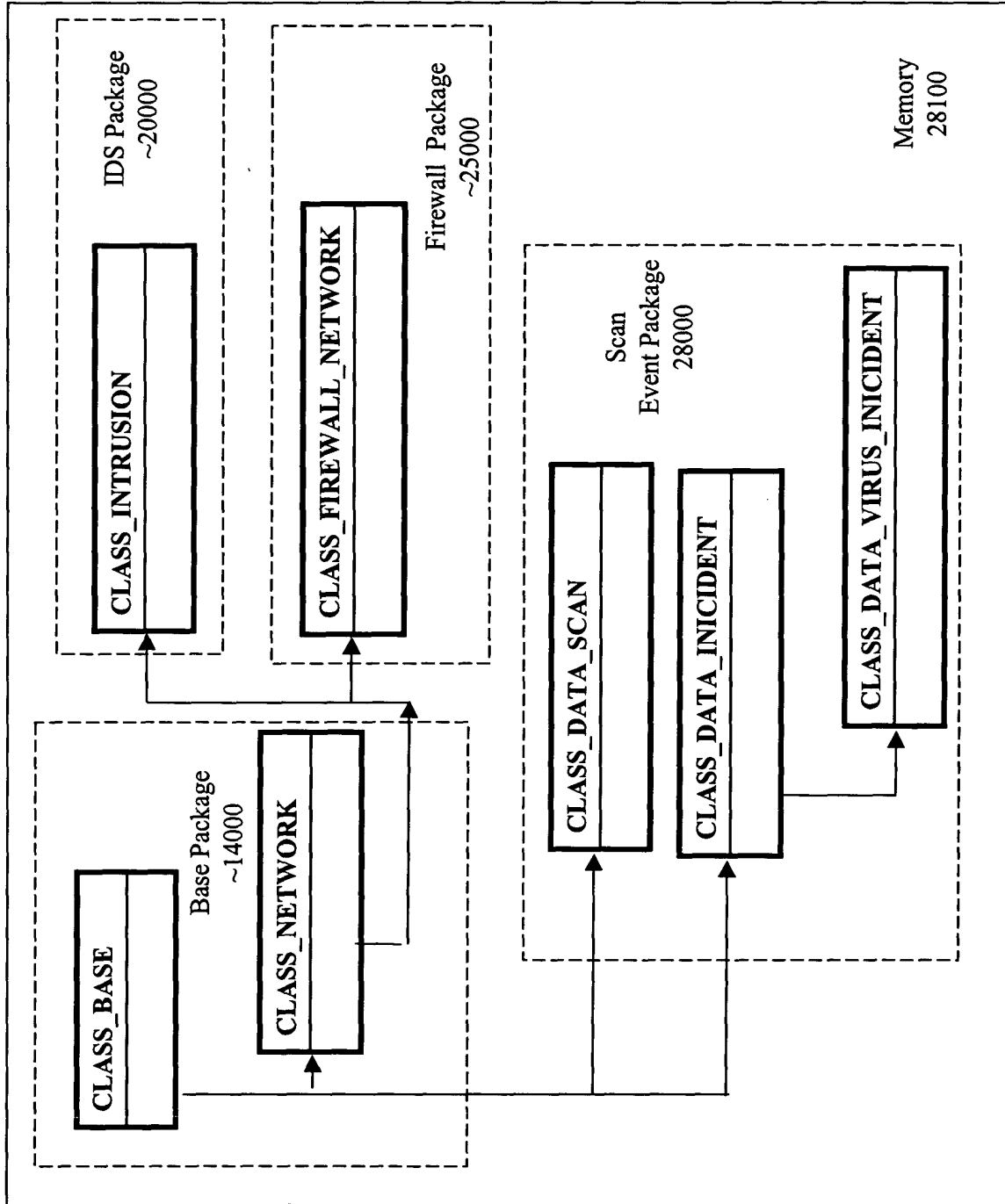


FIG. 28

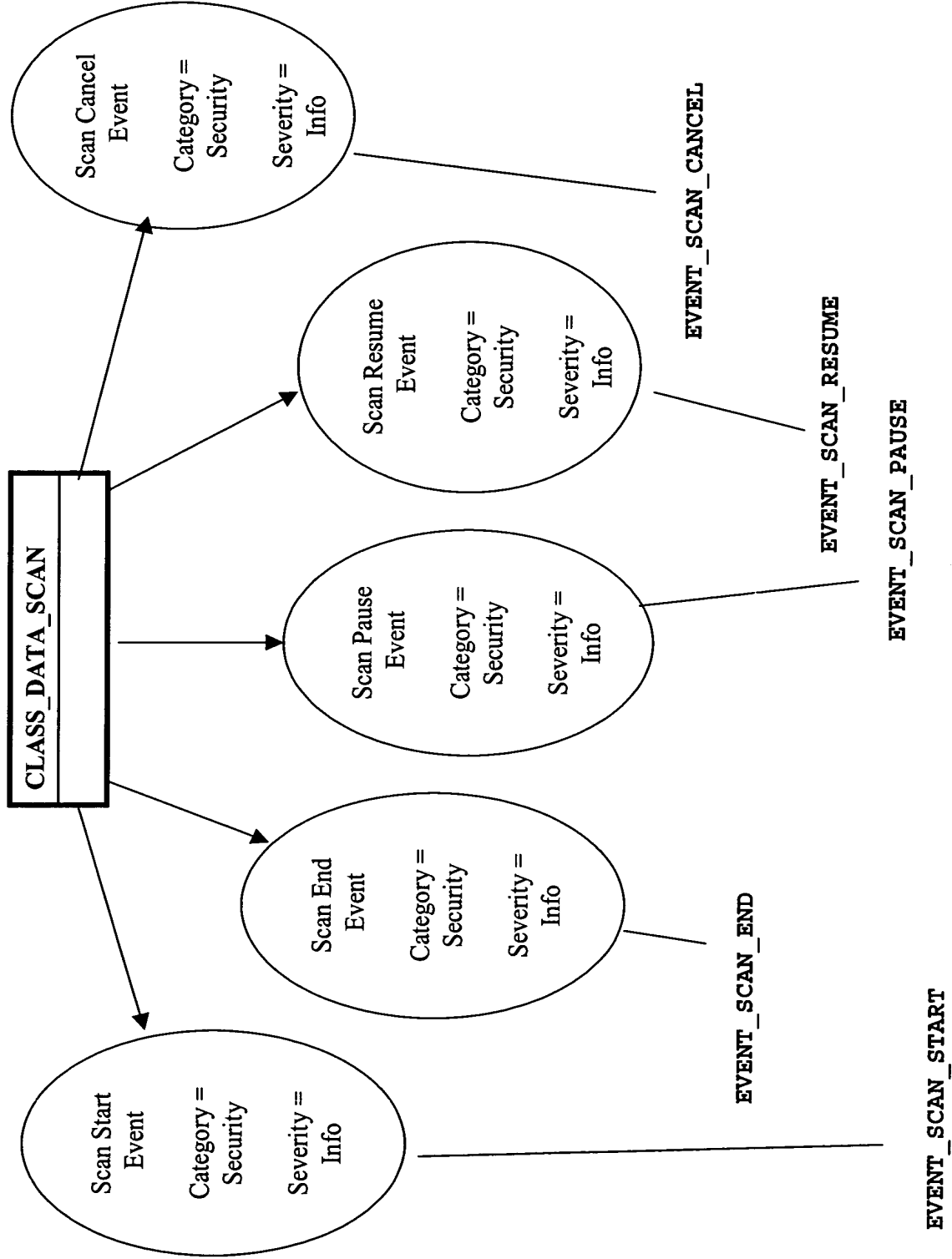


FIG. 29A

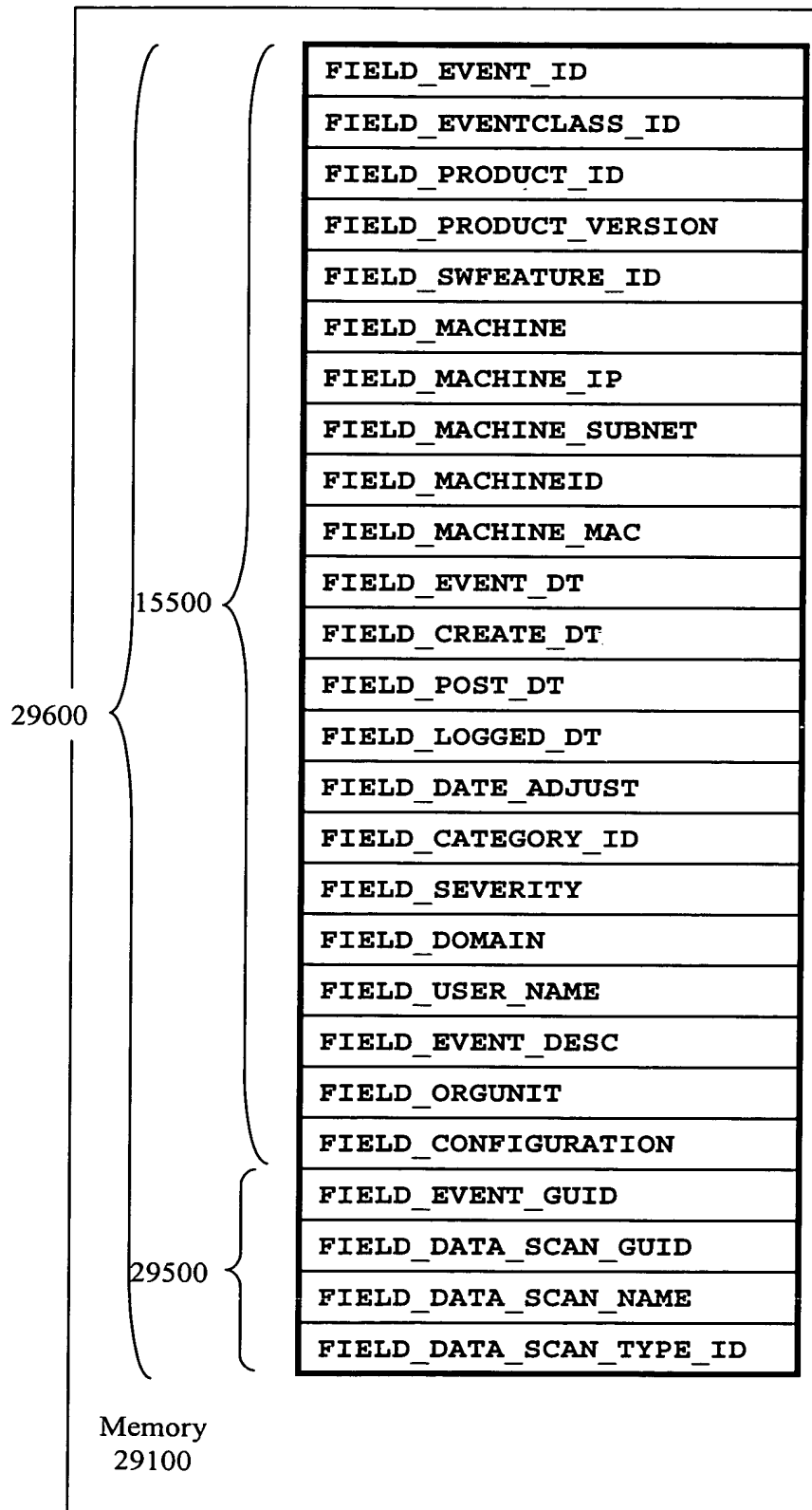
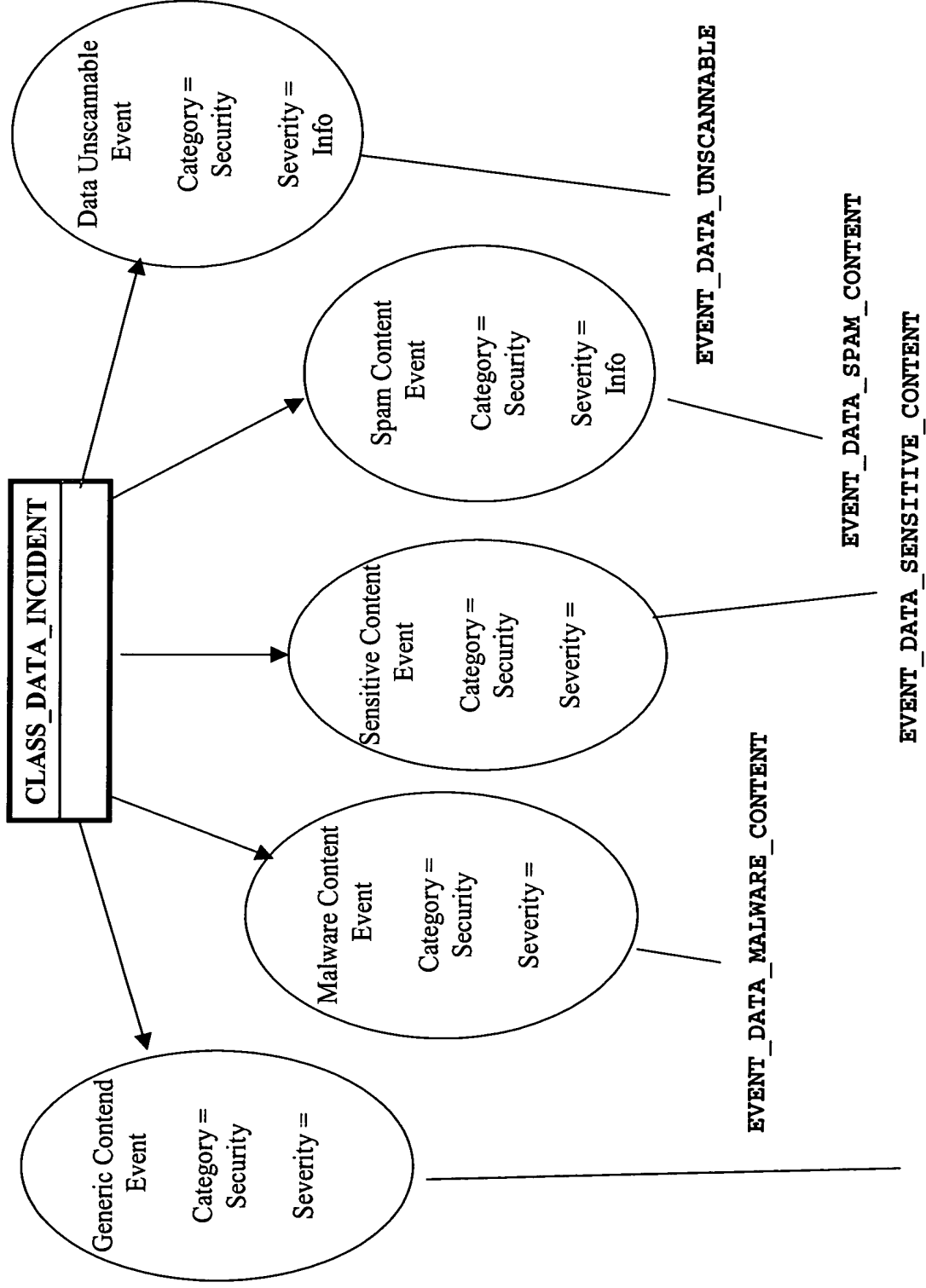


Fig. 29B



EVENT_DATA_GENERIC_CONTENT

EVENT_DATA_MALWARE_CONTENT

EVENT_DATA_SENSITIVE_CONTENT

EVENT_DATA_SPAM_CONTENT

EVENT_DATA_UNSCANNABLE

FIG. 30A

Fig. 30B_1

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30600

15500

Memory
30100

FIELD_EVENT_ID
FIELD_EVENTCLASS_ID
FIELD_PRODUCT_ID
FIELD_PRODUCT_VERSION
FIELD_SWFEATURE_ID
FIELD_MACHINE
FIELD_MACHINE_IP
FIELD_MACHINE_SUBNET
FIELD_MACHINEID
FIELD_MACHINE_MAC
FIELD_EVENT_DT
FIELD_CREATE_DT
FIELD_POST_DT
FIELD_LOGGED_DT
FIELD_DATE_ADJUST
FIELD_CATEGORY_ID
FIELD_SEVERITY
FIELD_DOMAIN
FIELD_USER_NAME
FIELD_EVENT_DESC
FIELD_ORGUNIT
FIELD_CONFIGURATION
FIELD_EVENT_GUID
FIELD_DATA_SCAN_GUID
FIELD_DATA_TYPE_ID
FIELD_DATA_NAME
FIELD_DATA_STATUS_ID
FIELD_DATA_PART_NAME
FIELD_DATA_PART_STATUS_ID
FIELD_DATA_PERSISTENCE_ID

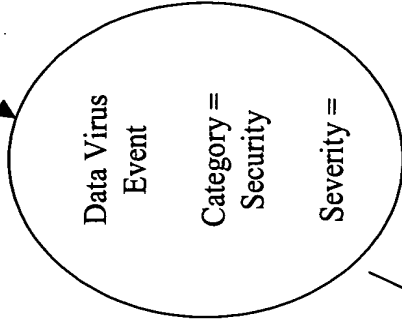
Fig. 30B_2

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30500

FIELD_DATA_DIRECTION_ID
FIELD_DATA_SOURCE_DOMAIN
FIELD_DATA_DEST_DOMAIN
FIELD_DATA_SOURCE_HOST
FIELD_DATA_DEST_HOST
FIELD_DATA_SENDER
FIELD_DATA_RECIPIENTS
FIELD_DATA_SUBJECT
FIELD_DATA_HEADERS
FIELD_DATA_INFO
FIELD_DATA_SIZE
FIELD_DATA_CREATED
FIELD_DATA_MODIFIED
FIELD_DATA_CREATOR
FIELD_DATA_MODIFIER
FIELD_DATA_QUARANTINE_ID
FIELD_DATA_BACKUP_ID
FIELD_DATA_RULE_DESCR
FIELD_DATA_RULE_REASON
FIELD_DATA_RULE_REASON_ID
FIELD_DATA_RULE_MODIFIED
FIELD_DATA_SIGNATURE

Memory
30100



EVENT_DATA_VIRUS

Fig. 31B_1

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31600

15500

Memory
31100

FIELD_EVENT_ID
FIELD_EVENTCLASS_ID
FIELD_PRODUCT_ID
FIELD_PRODUCT_VERSION
FIELD_SWFEATURE_ID
FIELD_MACHINE
FIELD_MACHINE_IP
FIELD_MACHINE_SUBNET
FIELD_MACHINEID
FIELD_MACHINE_MAC
FIELD_EVENT_DT
FIELD_CREATE_DT
FIELD_POST_DT
FIELD_LOGGED_DT
FIELD_DATE_ADJUST
FIELD_CATEGORY_ID
FIELD_SEVERITY
FIELD_DOMAIN
FIELD_USER_NAME
FIELD_EVENT_DESC
FIELD_ORGUNIT
FIELD_CONFIGURATION
FIELD_EVENT_GUID
FIELD_DATA_SCAN_GUID
FIELD_DATA_TYPE_ID
FIELD_DATA_NAME
FIELD_DATA_STATUS_ID
FIELD_DATA_PART_NAME
FIELD_DATA_PART_STATUS_ID
FIELD_DATA_PERSISTENCE_ID

Fig. 31B_2

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30500	FIELD_DATA_DIRECTION_ID
	FIELD_DATA_SOURCE_DOMAIN
	FIELD_DATA_DEST_DOMAIN
	FIELD_DATA_SOURCE_HOST
	FIELD_DATA_DEST_HOST
	FIELD_DATA_SENDER
	FIELD_DATA_RECIPIENTS
	FIELD_DATA_SUBJECT
	FIELD_DATA_HEADERS
	FIELD_DATA_INFO
	FIELD_DATA_SIZE
	FIELD_DATA_CREATED
	FIELD_DATA_MODIFIED
	FIELD_DATA_CREATOR
	FIELD_DATA_MODIFIER
	FIELD_DATA_QUARANTINE_ID
	FIELD_DATA_BACKUP_ID
	FIELD_DATA_RULE_DESCR
	FIELD_DATA_RULE_REASON
	FIELD_DATA_RULE_REASON_ID
	FIELD_DATA_RULE_MODIFIED
	FIELD_DATA_SIGNATURE
31500	FIELD_EVENT_GUID
	FIELD_VIRUS_NUMBER
	FIELD_VIRUS_TYPE_ID
	FIELD_VIRUS_DEFINITIONS
	FIELD_VIRUS_QS_NAME
Memory 31100	FIELD_VIRUS_QS_UUID

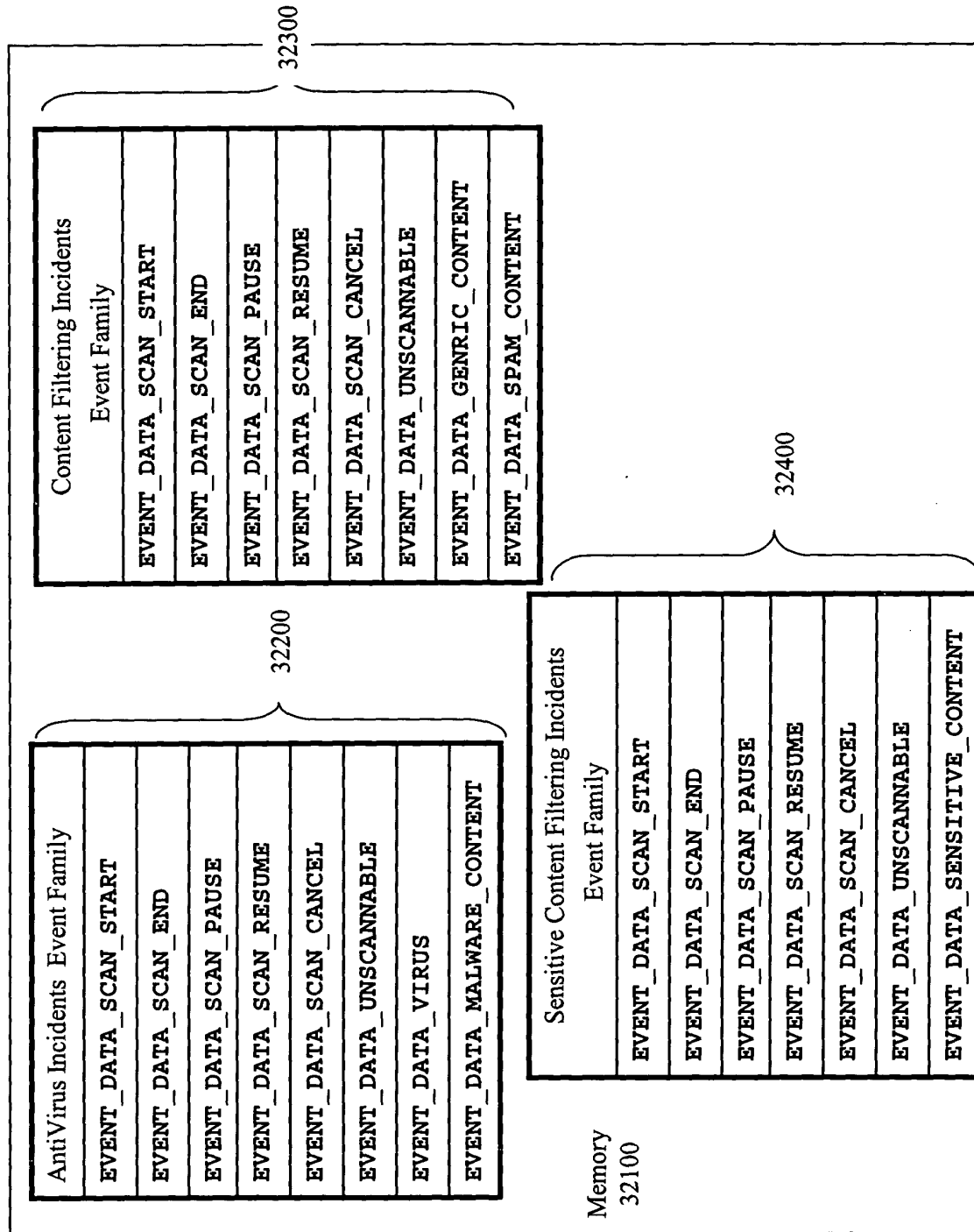


FIG. 32

Fig. 33

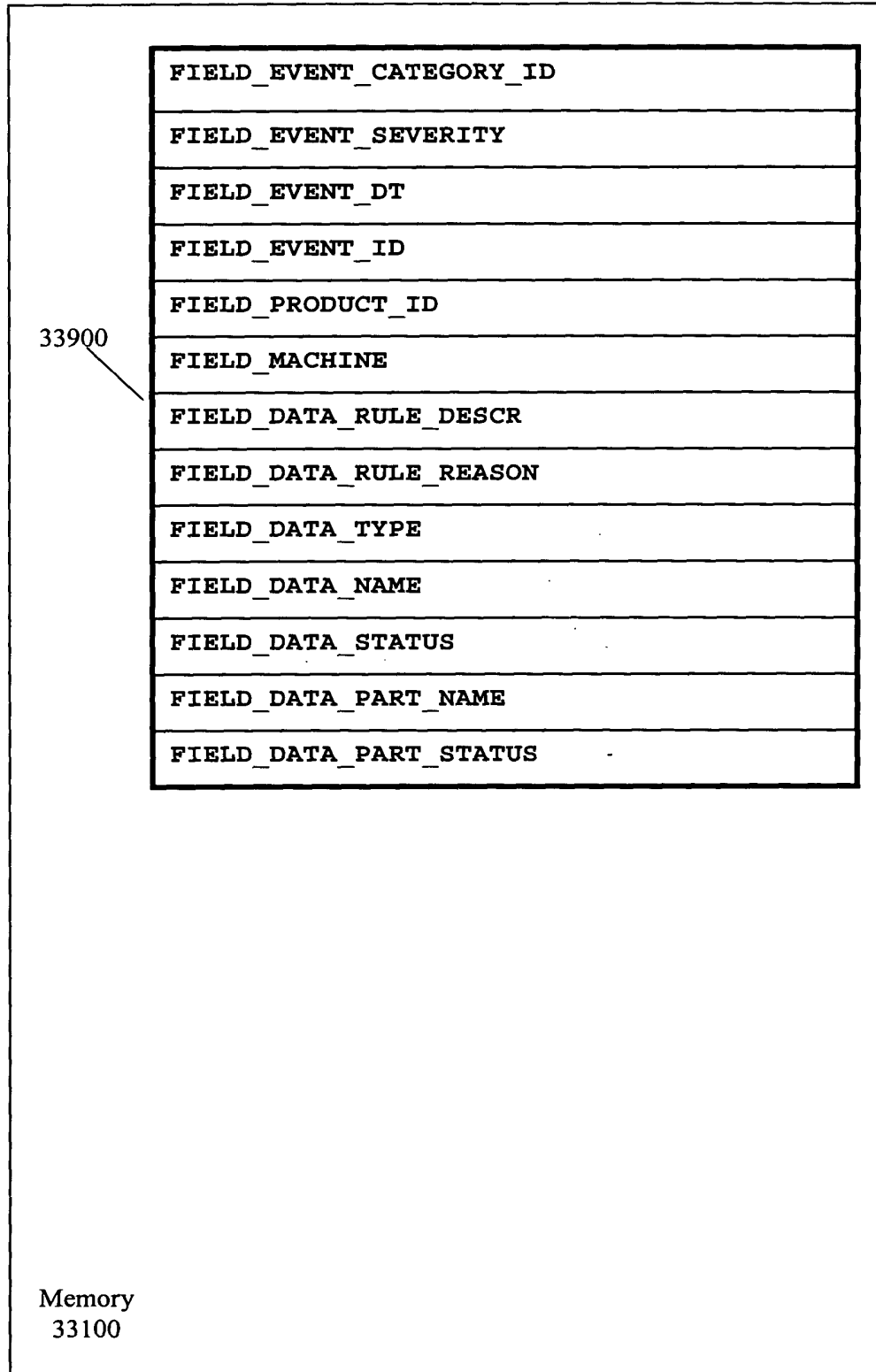


Fig. 34

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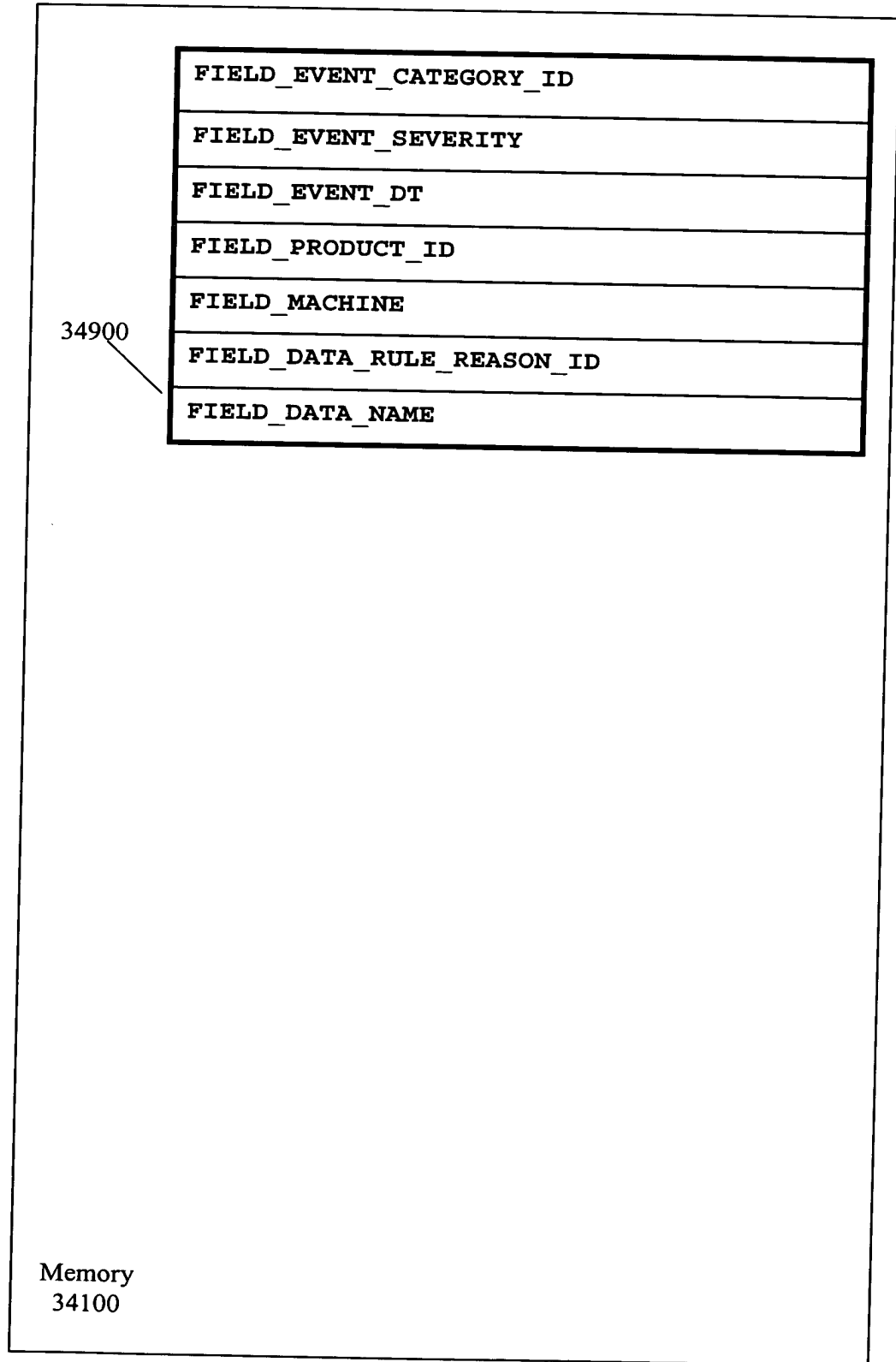


Fig. 35

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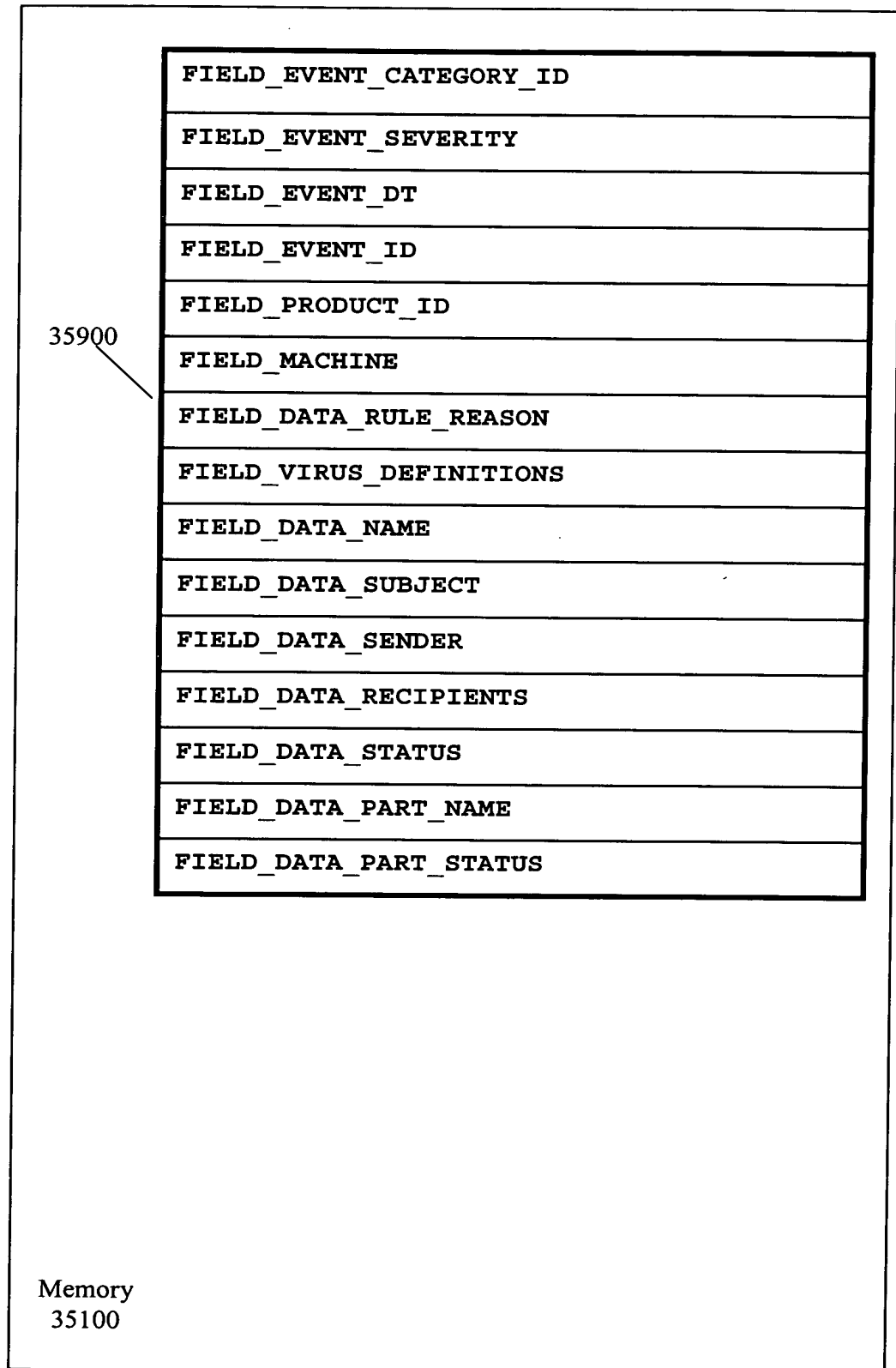


Fig. 36

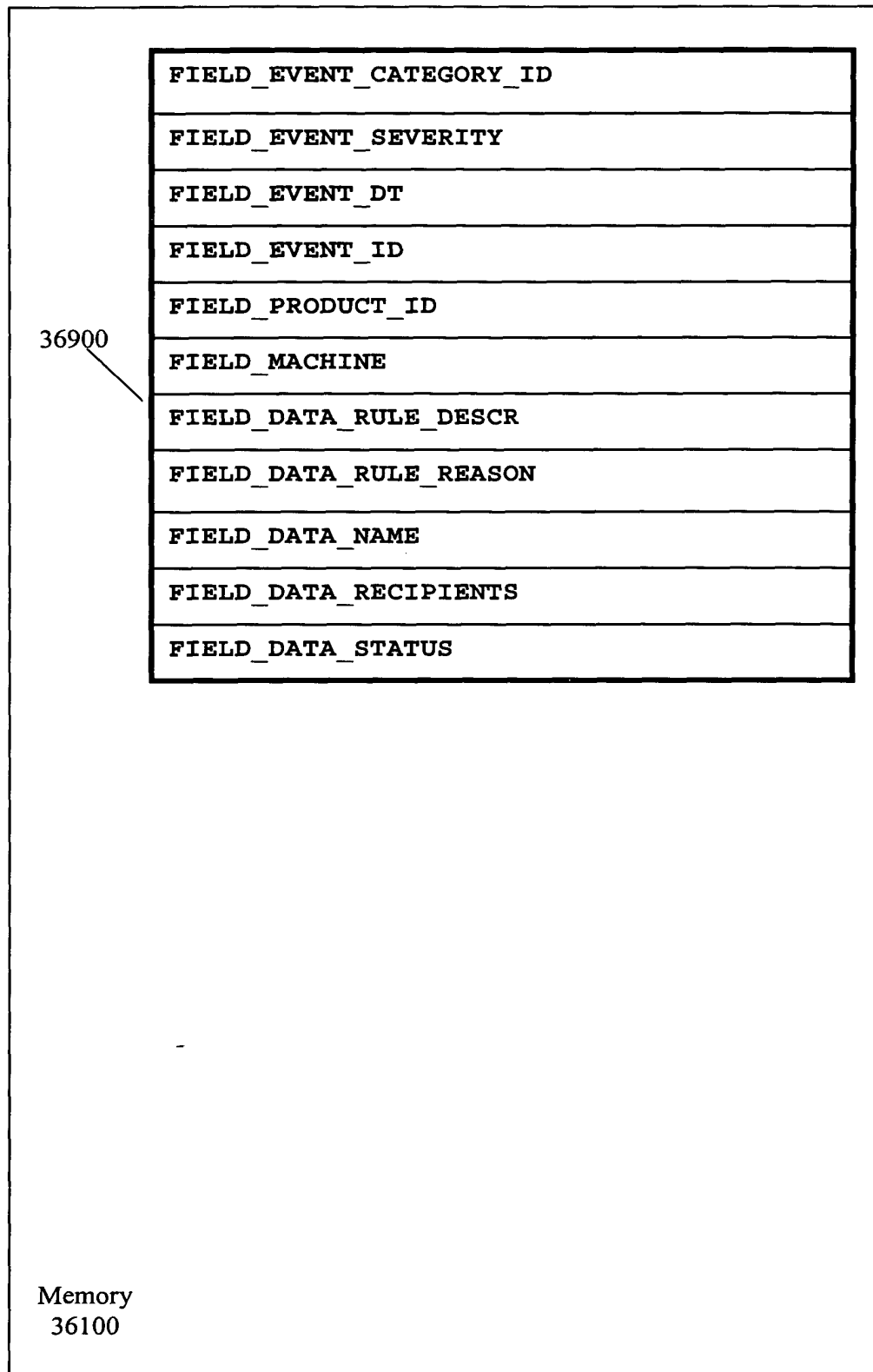


Fig. 37

37900

FIELD_EVENT_CATEGORY_ID
FIELD_EVENT_SEVERITY
FIELD_EVENT_DT
FIELD_EVENT_ID
FIELD_PRODUCT_ID
FIELD_MACHINE
FIELD_DATA_RULE_DESCR
FIELD_DATA_RULE_REASON
FIELD_VIRUS_DEFINITIONS
FIELD_DATA_NAME
FIELD_DATA_SIZE
FIELD_DATA_STATUS
FIELD_DATA_PART_NAME
FIELD_DATA_PART_STATUS
FIELD_DATA_CREATED
FIELD_DATA_MODIFIED

Memory
37100

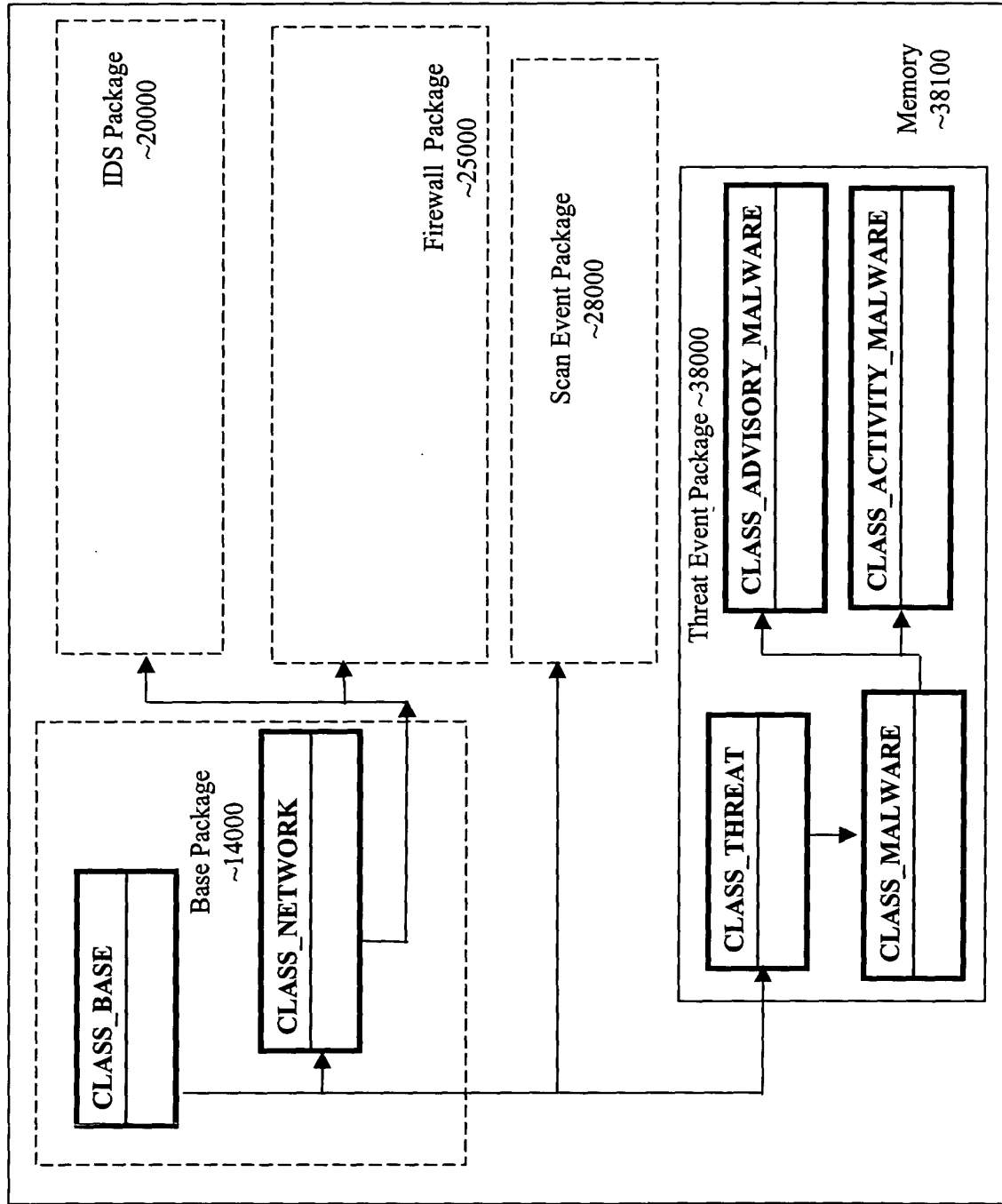


FIG. 38

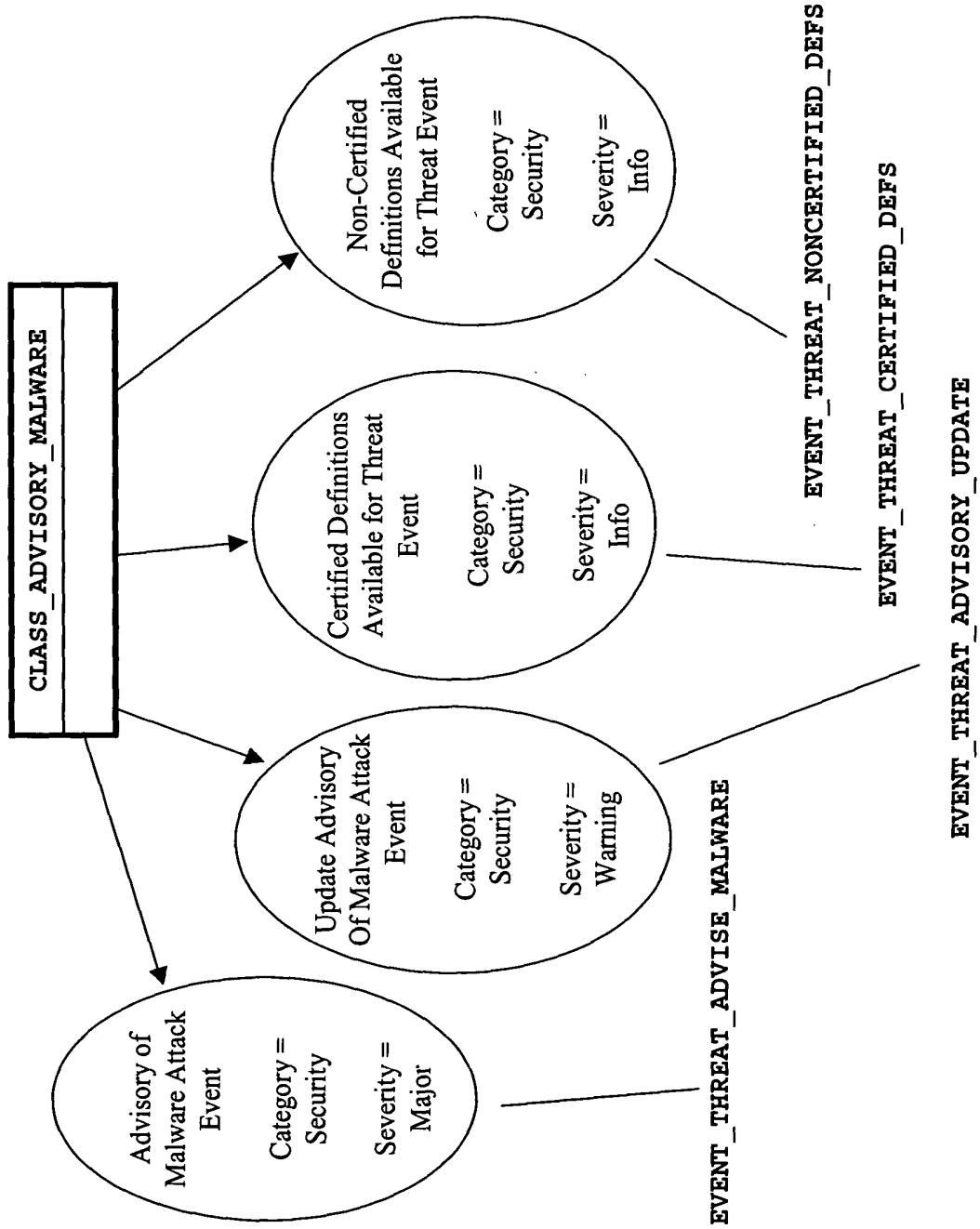


FIG. 39A

Fig. 39B_1

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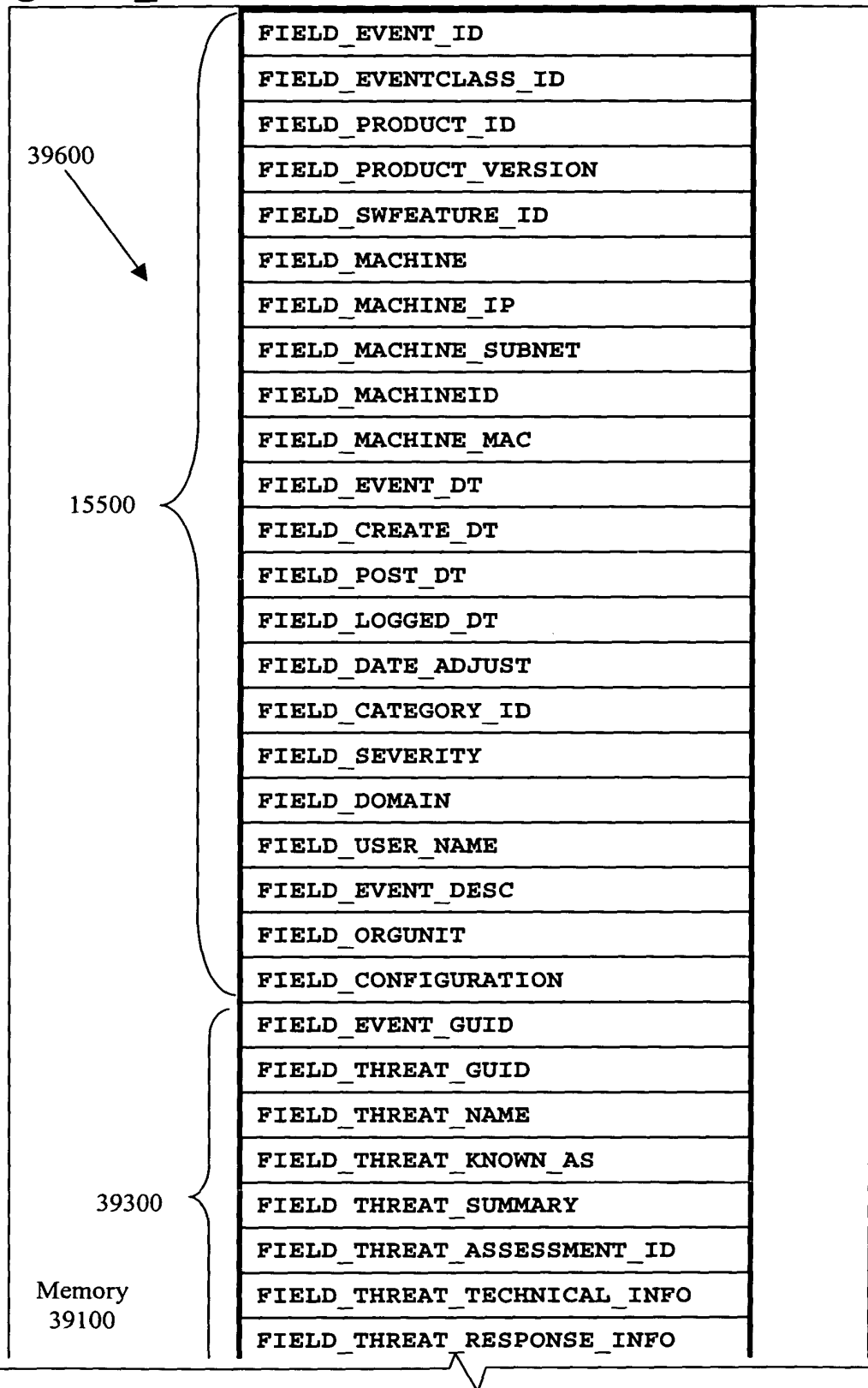


Fig. 39B_2

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39400	FIELD_THREAT_INFO_URL
	FIELD_MALWARE_INFECTION_LENGTH
	FIELD_MALWARE_MD5_SIG
	FIELD_MALWARE_VIRUS_DEF_DT
	FIELD_MALWARE_DEF_SEQ_ID
39500	FIELD_THREAT_DISCOVERY_DT
	FIELD_THREAT_LAST_UPDATE_DT
	FIELD_THREAT_ASSESSMENT_WILD_ID
	FIELD_THREAT_ASSESSMENT_DAMAGE_ID
	FIELD_THREAT_ASSESSMENT_DISTRIBUTION_ID
	FIELD_THREAT_ASSESSMENT_DETAIL
	FIELD_THREAT_ASSESSMENT_DAMAGE_DETAIL
	FIELD_THREAT_ASSESSMENT_DISTRIBUTION_DETAIL

Memory
39100

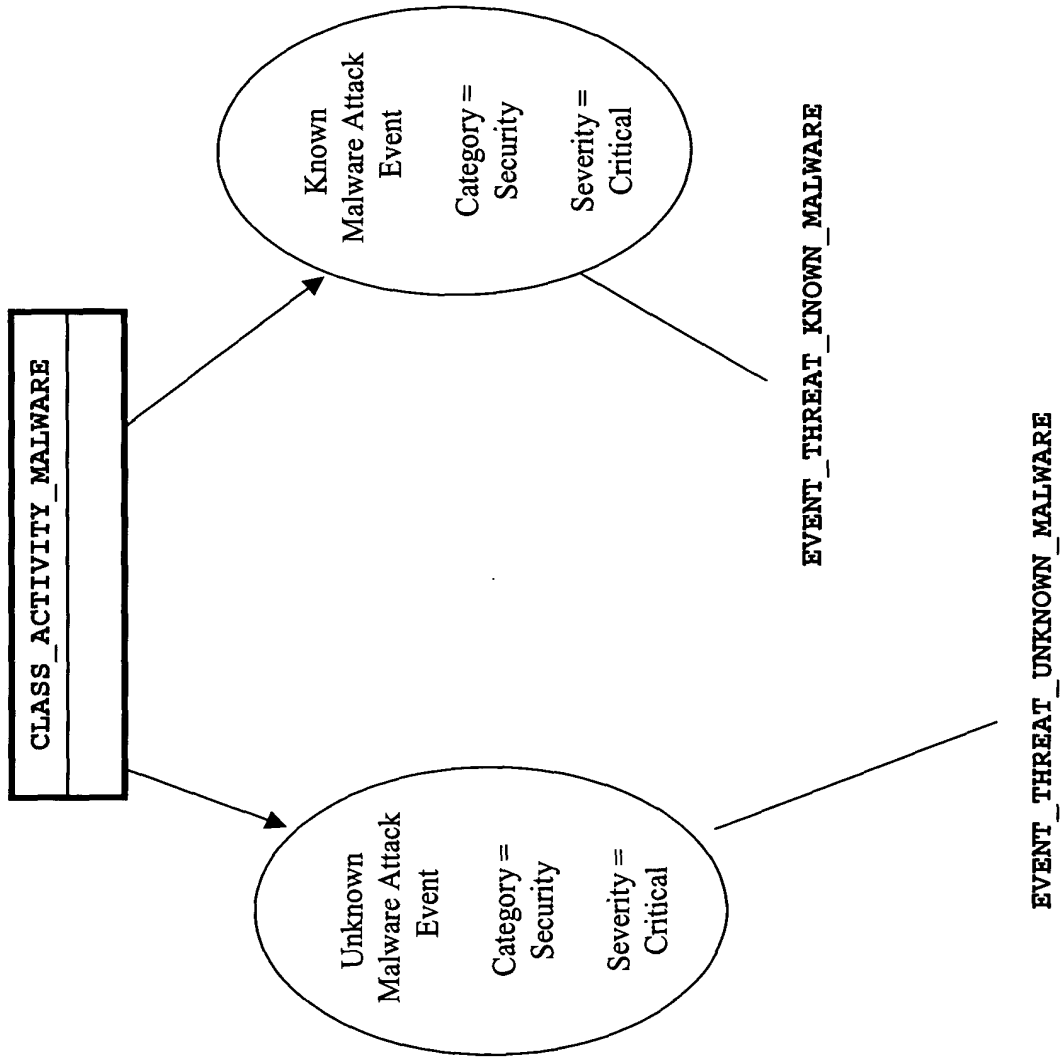


FIG. 40A

Fig. 40B_1

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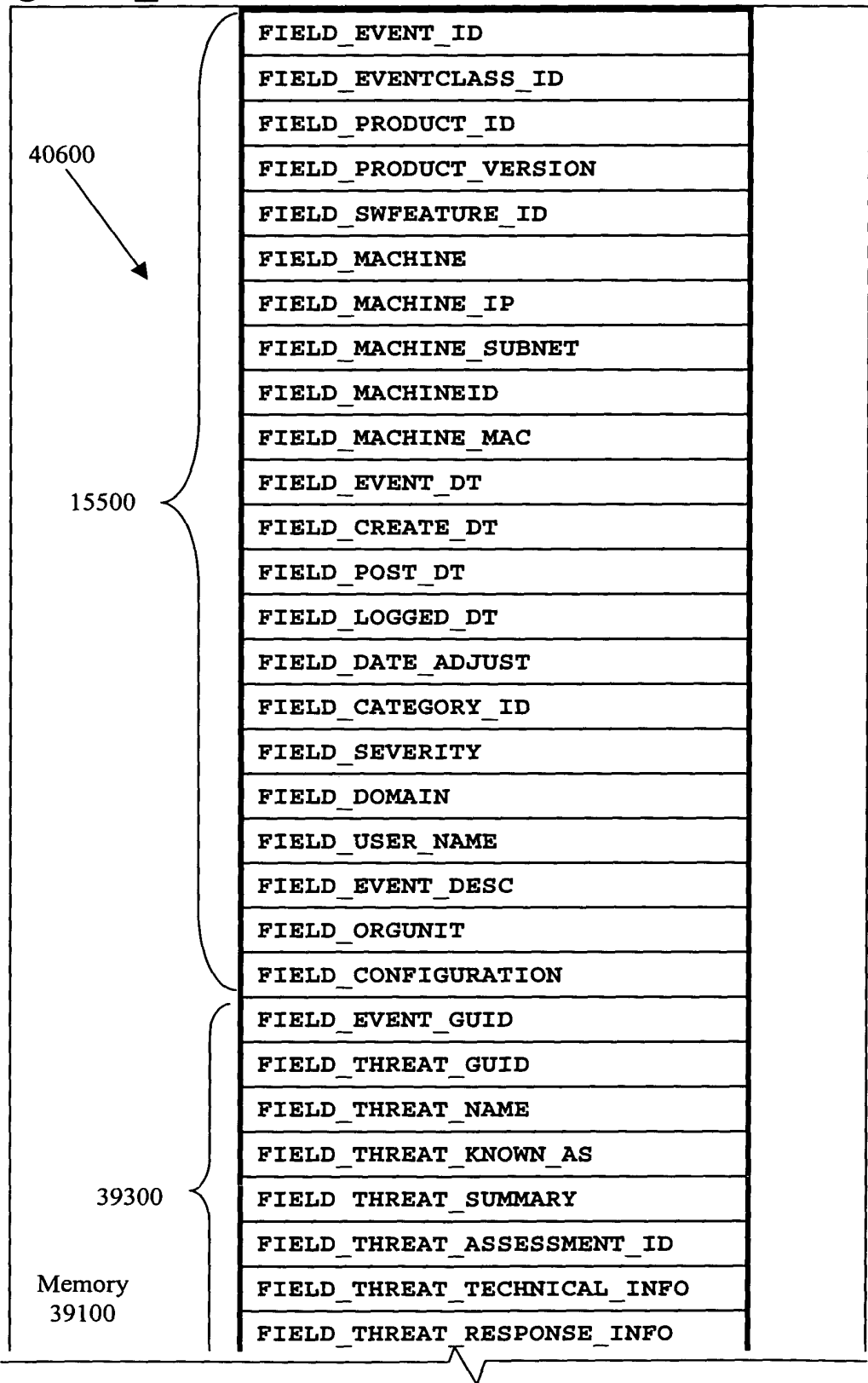


Fig. 40B_2

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39400	{	FIELD_THREAT_INFO_URL
		FIELD_MALWARE_INFECTION_LENGTH
		FIELD_MALWARE_MD5_SIG
		FIELD_MALWARE_VIRUS_DEF_DT
		FIELD_MALWARE_DEF_SEQ_ID
40500	{	FIELD_MALWARE_ORIG_MACHINE
		FIELD_MALWARE_ORIG_MACHINE_IP
		FIELD_MALWARE_ORIG_SUBNET
		FIELD_MALWARE_ORIG_USER_NAME
		FIELD_MALWARE_ORIG_SITE

Memory
40100

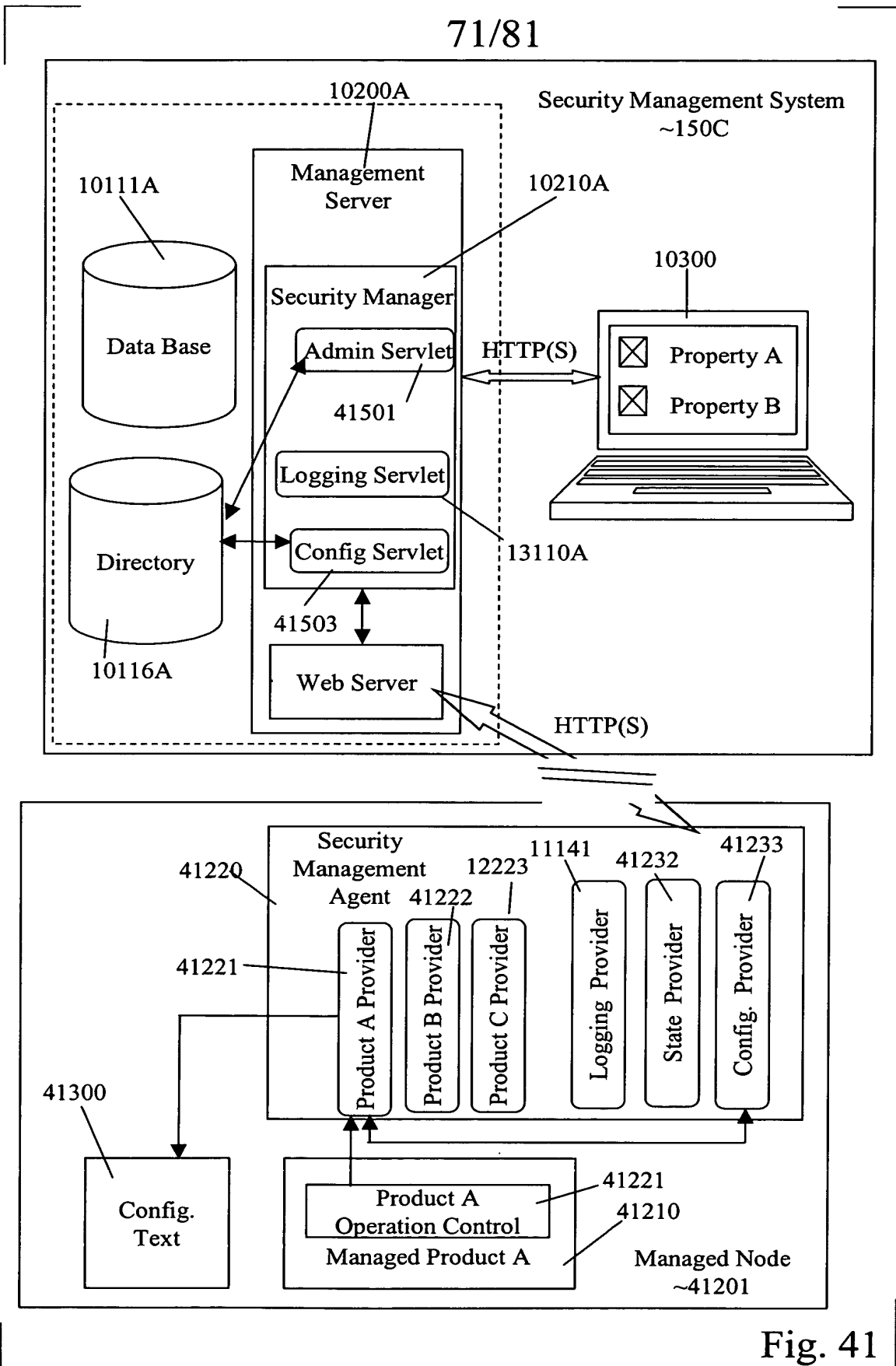


Fig. 41

```

    <?xml version="1.0" encoding="UTF-8" ?>
- <SesaIntegrationData xmlns:xsi=
    "http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="NabooBase.xsd">
42001 -<SesaProductData>
    <Version>1.00</Version>
    <Author>ABC</Author>
    <Revision>0.01</Revision>
    <RevDate>Feb 15 2003</RevDate>
    <Product>
    <!-- Simple Sample Product -->
    <!-- Product ID 3001 ==> Numbering
        Range [30,010,000 - 300,019,999] -->
    -<Product Id="3001">
        <Version>4.0</Version>
        <Vendor>Symantec Corporation</Vendor>
        <SKUNumber>1234</SKUNumber>
        <Caption>Sample Product</Caption>
        <Description>Simple Sample Product
            for NIK </Description>
        <Name>Sample Product</Name>
        <DisplayName LangId="10001">
            Sample</DisplayName>
        <EventFamilyMembership Id="90000" />
42002 <DataDefinition>
        <!-- Software Feature Ids
            30,010,101-30,010,999 -->
        - <SoftwareFeature Id="30010101">
            <Caption>Sample Software
                Feature </Caption>
            <Description>Sample Software
                Feature</Description>
            <Name>30010101</Name>
            <DisplayName LangId="10001">
                Sample Software Feature
                </DisplayName>
            <FeatureRole>SESA_LOGGING
                </FeatureRole>
            </SoftwareFeature>
42003 </DataDefinition>
        </Product>
    </SesaProductData>
</SesaIntegrationData>

```

Fig. 42

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```
package com.symantec.management.example;

import java.io.*;
import java.util.*;
import java.net.*;

import org.snia.wbem.cim.CIMException;
import org.snia.wbem.cim.CIMNameSpace;
import org.snia.wbem.cim.CIMObjectPath;
import org.snia.wbem.cim.CIMValue;
import org.snia.wbem.client.CIMOMHandle;
import org.snia.wbem.client.CIMClient;

import com.symantec.management.providers.SESAProvider;
import com.symantec.management.providers.SymcObject;
import com.symantec.management.providers.SESAException;

/** example of the Agent/Provider extension interface
 */
public class ExampleProvider extends SESAProvider
{
    // product and feature IDs for the advanced sample
    public final int      ADV_SAMPLE_APP_PRODUCT_ID = 3002;
    public final int      ADV_SAMPLE_APP_FEATURE_ID = 30020101;

    // constants for the config properties
    public final String    CFGPROP_POLLTIME = "PollTime";

    public final String    PROVIDER_NAME =
"Symc_ExampleProvider";

    // the local cache for your provider's configuration - name should be all lower case
    private final String    CONFIG_FILE_NAME = "exampleprovider.cfg";

    private Properties      m_props = null; // holds the config properties

    private CIMObjectPath   m_cimPath = null; // object for the Example
Provider
    private CIMClient       m_cimClient = null; // communicate with the
CIMOM

    public ExampleProvider()
    {
        System.out.println("--inside the ExampleProvider() constructor");
    }

    /* perform initialization of the provider<p>
Any initialization should be done in here. It is not necessary to request
```

Fig. 43A

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```
* configurations from the Config Provider, as those are retrieved automatically
* and sent to applyConfig().
*/
public void initialize(CIMOMHandle ch) throws CIMException
{
    System.out.println("\n***inside the Example Provider!\n");

    // Any threads to be used should be created in here
    // Threads should be "daemon" so that the shutdown does not
    // have to wait on them too long.

    try
    {
        loadConfigFile();
    }
    catch (CIMException e)
    {
        System.out.println("Could not load example provider's configuration
file.");
    }

    // There are other methods available in the Config Provider to get information
    // about the machine and the Management Server. These are:
    //     getMachineId() - the machine id from the bootstrap process
    //     getDB() - get the DN, as used in the Directory
    //     getDomain() - get the Domain that this machine was bootstrapped into
    //     getOrgUnit() - get the OrgUnit the machine was bootstrapped into
    //     getManagementServer() - returns a String for the URL to the Management Server
    //     getManagementServerAddress() - returns the IP address of the Management Server
    //     getManagementServerPort() - returns the port the Management Server listens on
    //     getSecManagementServer() - returns a String for the URL to the Secondary
    Management Server
    //     getSecManagementServerAddress() - returns the IP address of the Secondary
    Management Server
    //     getSecManagementServerPort() - returns the port the Secondary Management
    Server listens on
    //     getUseSSL() - returns true or false, whether or not to use SSL

    // There are also two more methods to retrieve configuration:
    //     getConfig(int ProductId, int FeatureId)
    //     getConfig(int ProductId, int FeatureIds[])
    //     These methods both retrieve a String which contains the entire set of properties from
    //     the Directory. The method illustrated below retrieves the same information, but the
    data
    //     is parsed for you and returned in a HashMap that looks something like this:

    // see the ConfigParser class for a description of what the HashMap returned from
    // getConfigProperties looks like
```

Fig. 43B

```

    }

    /** shut down the provider
     */
    public void cleanup() throws CIMException
    {
        // destroy any threads created in initialize()
    }

    /** get the Service object that relates to this Provider
     * @return Service
     */
    public SymcObject getService()
    {
        try
        {
            if (m_Service == null)
            {
                // the file name referenced "ExampleProvider.svc" can be in
                // as the constructor translates all file names to lower case.
                // The physical file on disk must be in lower case (enforced by
                // the Makefile)

                m_Service = new SymcObject("Symc_Service",
                "ExampleProvider.svc");
            }
        }
        catch (SESAException se)
        {
            se.printStackTrace();
        }
        return (m_Service);
    }

    /** the CIM invokeMethod call
     */
    public CIMValue invokeMethod(CIMObjectPath op, String name, Vector in, Vector
    out)
    {
        throws CIMException
        {
            System.out.println("ExampleProvider.invokeMethod(" + name + ")");

            CIMValue ret = new CIMValue("unrecognized method " + name + "");

```

Fig. 43C

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```
        if (name.equalsIgnoreCase("getconfigdata"))
            ret = getConfigData(in, out);
        else if (name.equalsIgnoreCase("getconfigproperty"))
            ret = getConfigProperty(in, out);

        return (ret);
    }

    /** obtains all config settings for the application
     */
    public CIMValue getConfigData(Vector in, Vector out)
    {
        if (m_props == null)
            return (new CIMValue(""));

        String sRet = "";
        Enumeration enum = m_props.keys();
        while (enum.hasMoreElements())
        {
            String sKey = (String) enum.nextElement();
            String sVal = (String) m_props.get(sKey);
            if (sVal != null)
                sRet += sKey + "=" + sVal + "\n";
        }

        if (sRet.length() == 0)
            sRet = "key=value\n";

        System.out.println("\n*****Returning config data: '" + sRet + "'");
        return (new CIMValue(sRet));
    }

    /** obtains a specific, named config property
     */
    public CIMValue getConfigProperty(Vector in, Vector out)
    {
        if (m_props == null)
            return (new CIMValue(""));

        String sParam = null;
        try
        {
            sParam = getParameterString(in, "propName");
        }
        catch (SESAException se)
    }
```

Fig. 43D

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```

    {
        return (new CIMValue(""));
    }

    if (sParam == null)
        return (new CIMValue(""));

    // Looks in the private cache of properties to retrieve the value.
    String sVal = (String) m_props.get(sParam);
    if (sVal == null)
        sVal = "";

    if (sVal.length() == 0)
        sVal = sParam + ".value";

    System.out.println("\n***Returning config property '" + sParam + "' = '" +
sVal + "'");
    return (new CIMValue(sVal));
}

/** Used for sending messages between Providers.<P>
 * This method is called from another Provider to inform this Provider of a specific
 * event. The string contains information that can be parsed.
 * @param msg The String representing the message.
 */
public void sendMessage(String msg)
{
}

/** get the name of the Provider
 * @return a string representing the name of this Provider
 */
public String getName()
{
    return (PROVIDER_NAME);
}

/** Informs the Provider of an updated configuration.<P>
 * This is called from the Configuration Provider when there is a new
 * configuration that the Provider should use.
 * @param newConfigs A HashMap representing the configuration properties that
 * the Provider should use from this point forward. See the ConfigParser
 * class for a description of the contents of the HashMap
 */
public void applyConfig(HashMap newConfigs)
{

```

Fig. 43E

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```

// Get the properties that we are interested in from the entire set. The entire
set includes
// all products and features. We are interested only in our own application.
Properties newProps = getCfgPropertySet(newConfigs,
ADV_SAMPLE_APP_FEATURE_ID, "SampleApplication");
if (newProps == null)
{
    System.out.println("no properties found for SWF " +
getSoftwareFeatureId());
    return;
}
// Private cache of properties.
m_props = newProps;

String sVal = (String) m_props.get(CFGPROP_POLLTIME);
if (sVal != null)
{
    try
    {
        // Set the poll time in the instance so that the application can use the standard
CIM
// call getProperty to retrieve it. This also allows the poll time to become
part of
// the application's set of state variables. You would put a property here only
if you
// want it accessible through CIM. If not, keep it only in the private cache.
        createCIMClient();
        m_cimClient.setProperty( m_cimPath, "ProviderPollTime",
new CIMValue(sVal) );
    }
    catch (CIMException ce)
    {
        System.out.println("\n>>>>> Error setting property
ProviderPollTime in instance\n");
        System.out.println( ce.toString() );
    }
}

// update the local configuration file from the HashMap
File fiConfig = new File(CONFIG_FILE_NAME);

FileOutputStream os = null;

try
{
    os = new FileOutputStream(fiConfig);
    m_props.store(os, null);
}

```

Fig. 43F

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```
catch (FileNotFoundException fnf)
{
}
catch (IOException ioe)
{
}

if (os != null)
    try
    {
        os.close();
    }
    catch (IOException ioe)
    {
    }

// At this point the provider could communicate with its application to push the new
// configuration
// to the application. Alternatively, the application could poll for changes to the
// configuration
// file created above and read its configuration from the file.

// Check to see if the advanced sample application is listening on the pre-defined port
try
{
    // The port is defined in the advanced sample app.
    Socket sock = new Socket("127.0.0.1", 4990);

    if (sock != null)
    {
        // If we're able to get a connection, then the advanced sample app is
        running
        // and waiting for a connection on localhost:4990. Attempt to write
        out the data.
        // The data will be the value that was assigned to "ProviderPollTime".
        // Note that the data sent can also be custom xml settings that will get
        parsed
        // by the application.
        BufferedOutputStream ostream = new
        BufferedOutputStream(sock.getOutputStream());

        ostream.write(sVal.getBytes());

        // Cleanup
        ostream.close();
        sock.close();
    }
}
```

Fig. 43G

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```
        catch (UnknownHostException e)
        {
        }
        catch (IOException e)
        {
        }
        catch (Exception e)
        {
        }
    }

    /** get the Product ID for this Provider
     * @return an integer representing the Product ID that this Provider is associated
with.
     */
    public int getProductId()
    {
        return (ADV_SAMPLE_APP_PRODUCT_ID);
    }

    /** get the Software Feature ID
     * @return an integer representing the Software Feature ID that this Provider is
     * associated with, or 0 if the Provider is not associated with a
specific
     * feature ID.
     */
    public int getSoftwareFeatureId()
    {
        return (ADV_SAMPLE_APP_FEATURE_ID);
    }

    /** load the configuration file from disk
     */
    private void loadConfigFile() throws CIMException
    {
        File fiConfig = new File(CONFIG_FILE_NAME);
        if (!fiConfig.exists())
            throw new CIMException("Symc_ExampleProvider: cannot find
config file '" + CONFIG_FILE_NAME + "'");

        m_props = new Properties();
        try
        {
            m_props.load(new FileInputStream(fiConfig));
        }
    }
}
```

Fig. 43H


```

        catch (FileNotFoundException fnf)
        {
            throw new CIMException("Symc_ExampleProvider: cannot load
config file " + CONFIG_FILE_NAME + "");
        }
        catch (IOException ioe)
        {
            throw new CIMException("Symc_ExampleProvider: error reading
configuration file");
        }
    }

    private void createCIMClient() throws CIMException
    {
        if (m_cimPath == null)
        {
            m_cimPath = new CIMObjectPath( PROVIDER_NAME );
            m_cimPath.addKey( "CreationClassName", new CIMValue(
"Symc_Service" ) );
            m_cimPath.addKey( "Name", new CIMValue(
"30020101.exampleprovider" ) );
            m_cimPath.addKey( "SystemCreationClassName", new CIMValue(
"Symc_ComputerSystem" ) );
            m_cimPath.addKey( "SystemName", new CIMValue( "localhost" ) );
        }

        if (m_cimClient == null)
        {
            CIMNameSpace cns = new CIMNameSpace( "localhost", "root" );
            m_cimClient = new CIMClient( cns, null, null, CIMClient.LOCAL );
        }
    }
}

```

Fig. 43I